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DICTIONARY FILE UPDATES: 1 MAY 2007 HIGHEST RN 934050-43-8

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> file hcaplu  
FILE 'HCAPLUS' ENTERED AT 16:09:46 ON 02 MAY 2007  
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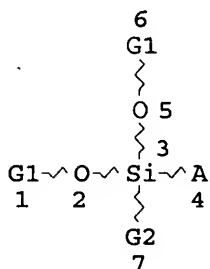
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FILE COVERS 1907 - 2 May 2007 VOL 146 ISS 19  
FILE LAST UPDATED: 1 May 2007 (20070501/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

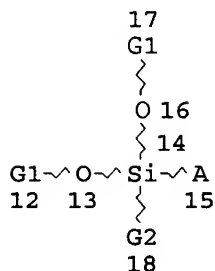
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que  
L1 STR



Ak~N  
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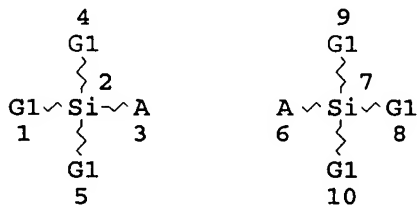
Ak~O  
10 @11



VAR G1=AK/CB  
VAR G2=AK/CB/8/9/11  
NODE ATTRIBUTES:  
NSPEC IS RC AT 4  
NSPEC IS RC AT 15  
CONNECT IS M2 RC AT 4  
CONNECT IS M2 RC AT 15  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE  
L2 7048 SEA FILE=REGISTRY SSS FUL L1  
L3 STR



VAR G1=AK/CB  
NODE ATTRIBUTES:  
NSPEC IS RC AT 3  
CONNECT IS M2 RC AT 3  
DEFAULT MLEVEL IS ATOM  
MLEVEL IS CLASS AT 6  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS UNLIMITED AT 6

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE  
L4 SCR 1918  
L5 130694 SEA FILE=REGISTRY SSS FUL L3 NOT L4  
L6 208 SEA FILE=REGISTRY ABB=ON L2 AND L5  
L7 6449 SEA FILE=HCAPLUS ABB=ON L2  
L8 55659 SEA FILE=HCAPLUS ABB=ON L5  
L9 696 SEA FILE=HCAPLUS ABB=ON L7 AND L8  
L13 7 SEA FILE=HCAPLUS ABB=ON L9 AND (END? OR CAPPED) (4A) (ALKOXSIL?)

*query for a of  
claim 1*

*query for b claim 1*

OR ALKYL SIL?)

L16 44 SEA FILE=HCAPLUS ABB=ON L8 (L) PLASTICI?

L17 5 SEA FILE=HCAPLUS ABB=ON L7 AND L16

L19 132 SEA FILE=HCAPLUS ABB=ON L9 AND (END? OR CAPPED OR TERMIN?) (4A)  
?OXYSIL?

L20 17 SEA FILE=HCAPLUS ABB=ON L9 AND (END? OR CAPPED OR TERMIN?) (4A)  
(?ALKYL? OR TRIMETHYL? OR TRIETHYL? OR TRIPROPYL? OR TRIBUTYL?  
OR PHENYL?) (1W) (?SILAN? OR ?SILYL?)

L21 11 SEA FILE=HCAPLUS ABB=ON L19 AND L20

L22 633 SEA FILE=HCAPLUS ABB=ON (END? OR CAPPED OR TERMIN?) (4A) (?ALKYL  
? OR TRIMETHYL? OR TRIETHYL? OR TRIPROPYL? OR TRIBUTYL? OR  
PHENYL?) (1W) (?SILAN? OR ?SILYL?)

L23 3188 SEA FILE=HCAPLUS ABB=ON (END? OR CAPPED OR TERMIN?) (4A) ?OXYSIL  
?

L24 151 SEA FILE=HCAPLUS ABB=ON L22 AND L23

L25 5 SEA FILE=HCAPLUS ABB=ON (END? OR CAPPED OR TERMIN?) (4A) (?ALKYL  
? OR TRIMETHYL? OR TRIETHYL? OR TRIPROPYL? OR TRIBUTYL? OR  
PHENYL?) (1W) (?SILAN? OR ?SILYL?) (L) PLASTICI?

L26 1 SEA FILE=HCAPLUS ABB=ON L24 AND L25

L28 98 SEA FILE=HCAPLUS ABB=ON L24 AND (COMPOSITION? OR COMPNS)

L30 15 SEA FILE=HCAPLUS ABB=ON L28 AND MOIS? (3A) CUR?

L32 205 SEA FILE=HCAPLUS ABB=ON L9 AND (END? OR CAPPED OR TERMIN?) (4A)  
?SILOXAN?

L33 15 SEA FILE=HCAPLUS ABB=ON L22 AND L32

L37 189 SEA FILE=HCAPLUS ABB=ON L6

L38 7 SEA FILE=HCAPLUS ABB=ON L37 AND L22

L39 15924 SEA FILE=HCAPLUS ABB=ON (END? OR CAPPED OR TERMIN?) (4A) ?SILOXA  
N?

L40 331 SEA FILE=HCAPLUS ABB=ON L22 AND L39

L41 5 SEA FILE=HCAPLUS ABB=ON L40 AND PLASTICI?

L43 93 SEA FILE=HCAPLUS ABB=ON L37 AND (L39 OR L23)

L50 27 SEA FILE=HCAPLUS ABB=ON L13 OR L17 OR L21 OR L33

L51 25 SEA FILE=HCAPLUS ABB=ON L26 OR L30 OR L38 OR L41

L52 21 SEA FILE=HCAPLUS ABB=ON L26 OR L30 OR L38

L53 7 SEA FILE=HCAPLUS ABB=ON L43 AND L22

L54 44 SEA FILE=HCAPLUS ABB=ON (L50 OR L51 OR L52 OR L53)

L55 400 SEA FILE=HCAPLUS ABB=ON L22 AND (L23 OR L39)

L56 260 SEA FILE=HCAPLUS ABB=ON L55 AND COMPOSITION?

L58 17 SEA FILE=HCAPLUS ABB=ON L56 AND MOIS? (3A) CUR?

L59 46 SEA FILE=HCAPLUS ABB=ON L54 OR L58

L60 42 SEA FILE=HCAPLUS ABB=ON L59 AND (1840-2004)/PRY,AY,PY

=> d l60 bib abs ind hitstr 1-42

L60 ANSWER 1 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:236847 HCAPLUS

DN 144:294168

TI Fabrication of silicone rubber-formed products having an uneven surface  
for airbag

IN Nozoe, Tsugio

PA Dow Corning Toray Co., Ltd., Japan

SO PCT Int. Appl., 28 pp.  
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2006028198	A1	20060316	WO 2005-JP16577	20050902 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

JP 2006077145 A 20060323 JP 2004-263439 20040910 <--

PRAI JP 2004-263439 A 20040910 <--

AB The products contain 1-50% thermoplastic resin powder, and the surface of the silicone rubber has thermo-plasticity and unevenness, wherein the silicone rubber comprise: (A) 100 parts diorganosiloxane containing  $\geq 2$  alkenyl group per mol., (B) organohydrogen polysiloxane containing  $\geq 3$  Si-bonded hydrogen per mol., (C) 0.1-500 ppm platinum catalyst, and (D) 0.1-50 parts silica powder. Thus, 50 parts dimethylvinylsilyl-terminated di-Me siloxane, 50 parts mixture of vinyl-containing organopolysiloxane resin and dimethylvinylsilyl-terminated di-Me siloxane (42:58), 14 parts fumed silica, 5 parts hexamethyldisilazane, and 2 parts water were mixed to form silicone rubber-base liquid compound, 100 parts of which was mixed with 10 parts polyethylene powder, added with 6.5 parts methylhydrogen-dimethylsiloxane copolymer, 0.2 parts chloroplatinic acid complex with divinyltetramethylsiloxane, 0.06 parts 3,5-dimethyl-1-hexen-3-ol, and 2 parts  $\gamma$ -glycidoxypyrpyltrimethoxysilane to give liquid silicone rubber composition (A). Composition A was coated on nylon 66 woven fabrics, cured at 180° for 1 min, and embossing with metal net while A was still hot to give a title product after cooling down and removing the metal net.

CC 39-9 (Synthetic Elastomers and Natural Rubber)

Section cross-reference(s): 37, 40

ST uneven surface silicone rubber thermoplastic airbag

IT Textiles

(silicone rubber coated; silicone rubber formed product having an uneven surface for airbag)

IT Airbags (protective)

Embossing

(silicone rubber formed product having an uneven surface for airbag)

IT Silicone rubber, preparation

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silicone rubber formed product having an uneven surface for airbag)

IT Polyamides, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(silicone rubber formed product having an uneven surface for airbag)

IT Crosslinking

(thermal; silicone rubber formed product having an uneven surface for airbag)

IT Plastics, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(thermoplastics, powder; silicone rubber formed product having an uneven surface for airbag)

IT 31900-57-9DP, Dimethylsilanediol homopolymer, dimethylvinylsilyl terminated, reaction product with trimethylsilyl-



**terminated methylhydrogensilanediol-**

**dimethylsilanediol** copolymer and vinyl-containing polysiloxane

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(assumed monomer; silicone rubber formed product having an uneven surface for airbag)

IT 156118-35-3DP, Methylhydrogensilanediol-dimethylsilanediol copolymer, trimethylsilyl-terminated, reaction product with dimethylvinylsilyl **terminated dimethylsiloxane** and vinyl-containing **polysiloxane**

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(assumed monomers; silicone rubber formed product having an uneven surface for airbag)

IT 7631-86-9, Fumed silica, uses

RL: MOA (Modifier or additive use); USES (Uses)

(colloidal; silicone rubber formed product having an uneven surface for airbag)

IT 32131-17-2, Nylon 66, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(fabrics; silicone rubber formed product having an uneven surface for airbag)

IT 9002-88-4, Polyethylene

RL: MOA (Modifier or additive use); USES (Uses)

(powder; silicone rubber formed product having an uneven surface for airbag)

IT 52672-74-9, Chloroplatinic acid-1,3-divinyldimethyltetramethyldisiloxane complex

RL: CAT (Catalyst use); USES (Uses)

(silicone rubber formed product having an uneven surface for airbag)

IT 59942-04-0DP, reaction product with **trimethylsilyl-**

**terminated methylhydrogensilanediol-**

**dimethylsilanediol** copolymer and vinyl-containing polysiloxane

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silicone rubber formed product having an uneven surface for airbag)

IT 999-97-3, Hexamethyldisilazane 2530-83-8,  $\gamma$ -

Glycidoxypentyltrimethoxysilane 3329-48-4, 3,5-Dimethyl-1-hexen-3-ol

RL: MOA (Modifier or additive use); USES (Uses)

(silicone rubber formed product having an uneven surface for airbag)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 2 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:116570 HCAPLUS

DN 144:192958

TI Dual cure polyether urethane acrylate **compositions** employing radical and RTV cure

IN Jacobine, Anthony F.; Woods, John G.; Nakos, Steven T.; Lim, Thomas Fay-Oy

PA Henkel Corporation, USA

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006014786	A1	20060209	WO 2005-US25939	20050722 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI US 2004-591937P P 20040728 <--

AB A **composition** of matter comprises A(R1-R2)<sub>n</sub> wherein A is a polyether or polyester polyol backbone; R1 is a carbamoyl containing linkage; and R2 is: (i) an alkylene (meth)acrylate terminated urethane containing linkage; (ii) an alkylene **alkoxysilyl terminated** linkage; or (iii) an **alkylene alkoxysilyl terminated** urea containing linkage, provided that at least one of group (i) and at least one of groups (ii) or (iii) are present, and n is 2-6. The **compns.** **cure** with **moisture** and photo radiation, such as UV light.

IC ICM C08G063-685

ICS C08G063-695; C08G065-333; C08G065-336

CC 37-3 (Plastics Manufacture and Processing)

ST radical **moisture** dual **cure** polyether urethane acrylate silyl

IT Adhesives

Gaskets

(dual cure polyether urethane acrylate **compns.** employing radical and RTV cure)

IT 818-61-1DP, 2-Hydroxyethyl acrylate, reaction products with isophorone diisocyanate and PLURACOL TP2540 and isocyanatomethyltrimethoxysilane 868-77-9DP, 2-Hydroxyethyl methacrylate, reaction products with PLURACOL TP 2540 and isophorone diisocyanate and N-cyclohexylaminomethyltrimethoxysilane 4098-71-9DP, Isophorone diisocyanate, reaction products with 2-hydroxyethyl acrylate and PLURACOL TP2540 and isocyanatomethyltrimethoxysilane 4098-71-9DP, Isophorone diisocyanate, reaction products with PLURACOL TP 2540 and 2-hydroxyethyl methacrylate and N-cyclohexylaminomethyltrimethoxysilane 25723-16-4DP, PLURACOL TP2540, reaction products with isophorone diisocyanate and 2-hydroxyethyl acrylate and isocyanatomethyltrimethoxysilane 25723-16-4DP, PLURACOL TP 2540, reaction products with isophorone diisocyanate and 2-hydroxyethyl methacrylate and N-cyclohexylaminomethyltrimethoxysilane 78450-75-6DP, Isocyanatomethyltrimethoxysilane, reaction products with isophorone diisocyanate and 2-hydroxyethyl acrylate and PLURACOL TP2540 733051-92-8DP, N-Cyclohexylaminomethyltrimethoxysilane, reaction products with PLURACOL TP 2540 and isophorone diisocyanate and 2-hydroxyethyl methacrylate

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dual cure polyether urethane acrylate **compns.** employing radical and RTV cure)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 3 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:54403 HCAPLUS

DN 144:129796

TI Room-temperature curable organopolysiloxane composition with good adhesion

for electrical or electronic devices

IN Mitani, Osamu; Onishi, Masayuki; Kodama, Harumi

PA Dow Corning Toray Co., Ltd., Japan

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006006371	A2	20060119	WO 2005-JP11576	20050617 <--
	WO 2006006371	A3	20060302		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

JP 2006022277 A 20060126 JP 2004-203660 20040709 <--

PRAI JP 2004-203660 A 20040709 <--

AB Title organopolysiloxane composition comprises (A) organopolysiloxane containing

≥2 trialkoxysilyl-containing groups bonded to silicon atoms of the mol. chain, (B) diorganodialkoxysilane or product of its partial hydrolyzation, (C) organopolysiloxane containing ≥1 silicon-bonded Ph group and no alkoxy groups, and (D) a titanium chelate catalyst. Thus,

**trimethoxysilyl-terminated dimethylpolysiloxane**

100, fumed silica coated with hexamethyldisilazane 15,

dimethyldimethoxysilane 4, titanium diisopropoxybis(ethylacetoacetate) 2,

and **trimethylsilyl-terminated**

**dimethylsilanediol-methylphenylsilanediol** copolymer 5

parts were mixed, applied on a glass substrate, and cured at 20°

and 55% RH for 7 days, showing good adhesion to substrate after 7 days and 90 days at 20° and 55% RH.

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38, 42, 72, 76

ST room temp curable organopolysiloxane compn adhesion elec electronic

device; **dimethyldimethoxysilane** trimethoxysilyl

terminated dimethylpolysiloxane copolymer blend;

**trimethoxysilyl terminated dimethylsilanediol**

methylphenylsilanediol copolymer blend

IT Electric apparatus

Electric circuits

Electrodes

(application; room-temperature curable organopolysiloxane compns. with good adhesion for elec. or electronic devices)

IT Polysiloxanes, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(blend with polysiloxane-silicates; room-temperature curable

organopolysiloxane compns. with good adhesion for elec. or electronic devices)

IT Coating materials

Sealing compositions

(room-temperature-curable; room-temperature curable organopolysiloxane compns. with good adhesion for elec. or electronic devices)

IT Polysiloxanes, preparation

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (silicate-, blend with polysiloxane; room-temperature curable organopolysiloxane compns. with good adhesion for elec. or electronic devices)

IT 691888-16-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (blend with polysiloxane; room-temperature curable organopolysiloxane compns.

with good adhesion for elec. or electronic devices)

IT 156048-35-0D, Dimethylsilanediol-methylphenylsilanediol copolymer, trimethylsilyl-terminated

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (blend with polysiloxane; room-temperature curable organopolysiloxane compns. with good adhesion for elec. or electronic devices)

IT 3982-82-9, 1,3,3,5-Tetramethyl-1,1,5,5-tetraphenyltrisiloxane

RL: MOA (Modifier or additive use); USES (Uses) (room-temperature curable organopolysiloxane compns. with good adhesion for elec. or electronic devices)

IT 691888-16-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (blend with polysiloxane; room-temperature curable organopolysiloxane compns.

with good adhesion for elec. or electronic devices)

RN 691888-16-1 HCAPLUS

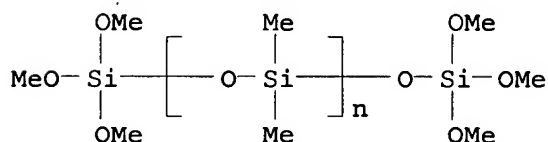
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethoxysilyl)- $\omega$ -[(trimethoxysilyl)oxy]-, polymer with dimethoxydimethylsilane (9CI) (CA INDEX NAME)

CM 1

CRN 164849-42-7

CMF (C2 H6 O Si)<sub>n</sub> C6 H18 O7 Si2

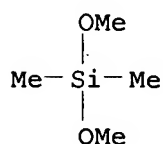
CCI PMS



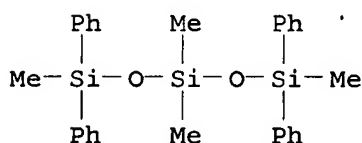
CM 2

CRN 1112-39-6

CMF C4 H12 O2 Si



IT 3982-82-9, 1,3,3,5-Tetramethyl-1,1,5,5-tetraphenyltrisiloxane  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (room-temperature curable organopolysiloxane compns. with good adhesion for  
 elec. or electronic devices)  
 RN 3982-82-9 HCAPLUS  
 CN Trisiloxane, 1,3,3,5-tetramethyl-1,1,5,5-tetraphenyl- (CA INDEX NAME)



L60 ANSWER 4 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:1003196 HCAPLUS

DN 143:307075

TI Curable polymer composition with good storability and workability and its manufacture

IN Ono, Kazuhisa

PA GE Toshiba Silicone Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 37 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005247923	A	20050915	JP 2004-57582	20040302 <--
PRAI	JP 2004-57582		20040302	<--	

AB The composition comprises a liquid curable polymer, esp.polyorganosiloxane, and an inorg. filler surface treated with an alkylsilyl titanium compound and/or an alkoxy siloxy titanium compound Kneading  $\alpha,\omega$ -bis(methyldimethoxysilyl)-terminated di-Me siloxane 100, diisopropoxybis(tripropylsilyl)titanium 0.20, and fumed silica 14 parts, mixing with 25 parts di-Me siloxane, and mixing (139 pats) with methyltrimethoxysilane 3, tris(N-trimethoxypropyl)isocyanurate 0.5, and diisopropoxytitanium bis(Et acetylacetate) 2.5 part gave a composition with tack-free time 10 min, viscosity 2250 mPa-s, and JIS-A hardness 2.3 initially and 12, 2460, and 2.3, resp., after heating 5 days at 70°.

IC ICM C08L101-00

ICS C08K005-5419; C08K009-06; C08L083-04; C09C003-12

CC 37-6 (Plastics Manufacture and Processing)

ST curable polyorganosiloxane compn storability workability;

methyldimethoxysilyl terminated dimethyl

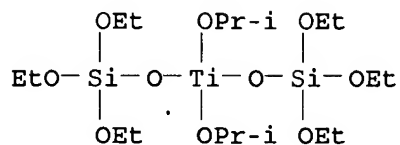
siloxane curable compn; diisopropoxybistripropylsilyltitanium

silica coupling agent curable compn

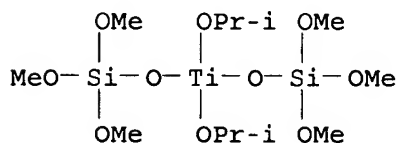
IT Coupling agents

(alkylsilyl or alkoxy siloxy titanium compound; curable polymer composition

- with good storability and workability and its manufacture)
- IT Polysiloxanes, preparation  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)  
 (curable polymer composition with good storability and workability and its manufacture)
- IT Epoxy resins, uses  
 RL: POF (Polymer in formulation); USES (Uses)  
 (curable polymer composition with good storability and workability and its manufacture)
- IT Phenolic resins, uses  
 RL: POF (Polymer in formulation); USES (Uses)  
 (epoxy, novolak; curable polymer composition with good storability and workability and its manufacture)
- IT Polyoxymethylenes, preparation  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)  
 (methyldimethoxysilyl-terminated, methyltrimethoxysilane crosslinked; curable polymer composition with good storability and workability and its manufacture)
- IT Epoxy resins, uses  
 RL: POF (Polymer in formulation); USES (Uses)  
 (phenolic, novolak; curable polymer composition with good storability and workability and its manufacture)
- IT Silicone rubber, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (sheet; curable polymer composition with good storability and workability and its manufacture)
- IT 7631-86-9, Fumed silica, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (colloidal; curable polymer composition with good storability and workability and its manufacture)
- IT 29772-27-8, Diisopropoxybis(triethoxysiloxy)titanium 535969-44-9  
 797045-82-0 864685-93-8  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (coupling agent; curable polymer composition with good storability and workability and its manufacture)
- IT ( 1185-55-3DP, Methyltrimethoxysilane, reaction product with methyldimethoxysilyl-terminated polyisobutylene  
 9003-27-4DP, Polyisobutylene, methyldimethoxysilyl-terminated, reaction product with methyltrimethoxysilane  
 189501-81-3DP, trimethylsilyl-terminated 243964-57-0P  
 864544-31-0P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)  
 (curable polymer composition with good storability and workability and its manufacture)
- IT 25068-38-6, Epikote 828 84778-06-3, Epikote 152  
 RL: POF (Polymer in formulation); USES (Uses)  
 (curable polymer composition with good storability and workability and its manufacture)
- IT 29772-27-8, Diisopropoxybis(triethoxysiloxy)titanium  
 797045-82-0  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (coupling agent; curable polymer composition with good storability and workability and its manufacture)
- RN 29772-27-8 HCAPLUS
- CN Titanium, bis(2-propanolato)bis(triethyl orthosilicato-κO''')-, (T-4)- (9CI) (CA INDEX NAME)



RN 797045-82-0 HCAPLUS

CN Titanium, bis(2-propanolato)bis(trimethyl orthosilicato-κO''')-,  
(T-4)- (9CI) (CA INDEX NAME)IT 189501-81-3DP, trimethylsilyl-terminated 243964-57-0P  
864544-31-0PRL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP  
(Preparation); USES (Uses)  
(curable polymer composition with good storability and workability and its  
manufacture)

RN 189501-81-3 HCAPLUS

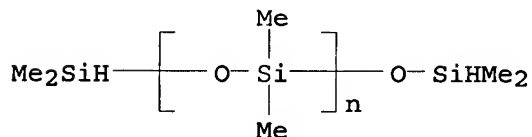
CN Silanediol, dimethyl-, polymer with α-(dimethylsilyl)-ω-  
[(dimethylsilyl)oxy]poly[oxy(dimethylsilylene)], α-  
(ethenyldimethylsilyl)-ω-[(ethenyldimethylsilyl)oxy]poly[oxy(dimethy  
lsilylene)] and methylsilanediol (9CI) (CA INDEX NAME)

CM 1

CRN 115254-29-0

CMF (C2 H6 O Si)<sub>n</sub> C4 H14 O Si2

CCI PMS

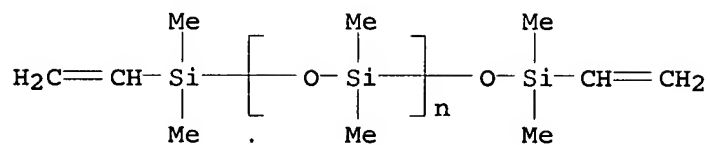


CM 2

CRN 59942-04-0

CMF (C2 H6 O Si)<sub>n</sub> C8 H18 O Si2

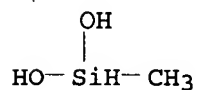
CCI PMS



CM 3

CRN 43641-90-3

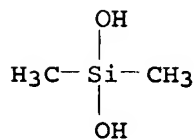
CMF C H6 O2 Si



CM 4

CRN 1066-42-8

CMF C2 H8 O2 Si



RN 243964-57-0 HCAPLUS

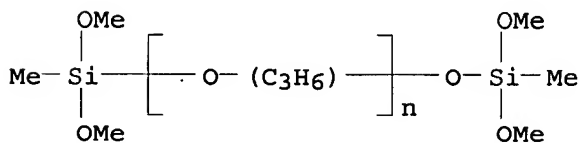
CN Silane, trimethoxymethyl-, polymer with  $\alpha$ -(dimethoxymethylsilyl)-  
 $\omega$ -[(dimethoxymethylsilyl)oxy]poly[oxy(methyl-1,2-ethanediyl)] (9CI)  
 (CA INDEX NAME)

CM 1

CRN 77396-40-8

CMF (C3 H6 O)<sub>n</sub> C6 H18 O5 Si2

CCI IDS, PMS

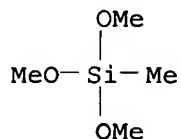


CM 2

CRN 1185-55-3

CMF C4 H12 O3 Si





RN 864544-31-0 HCAPLUS

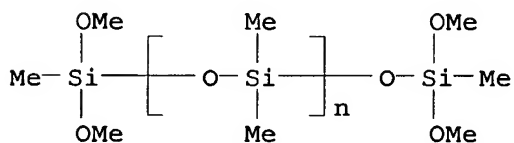
CN Silanediol, dimethyl-, polymer with  $\alpha$ -(dimethoxymethylsilyl)- $\omega$ -  
 [(dimethoxymethylsilyl)oxy]poly[oxy(dimethylsilylene)] and  
 trimethoxymethylsilane (9CI) (CA INDEX NAME)

CM 1

CRN 156809-29-9

CMF (C2 H6 O Si)<sub>n</sub> C6 H18 O5 Si2

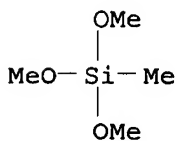
CCI PMS



CM 2

CRN 1185-55-3

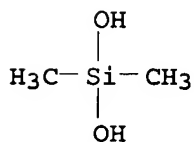
CMF C4 H12 O3 Si



CM 3

CRN 1066-42-8

CMF C2 H8 O2 Si



L60 ANSWER 5 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:243693 HCAPLUS

DN 143:61452

TI Thermoplastic RTV-1 compositions

AU Anon.

CS Germany  
 SO IP.com Journal (2004), 4(9), 35 (No. IPCOM000030798D), 27  
 Aug 2004

CODEN: IJPOBX; ISSN: 1533-0001

PB IP.com, Inc.  
 DT Journal; Patent  
 LA German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IP 30798D		20040827		
PRAI	IP 2004-30798D		20040827		
AB	In this disclosure 3 thermoplastic sealing <b>comps.</b> of siloxane-urea copolymers and <b>moisture-curable</b> RTV-1 silicone rubber are described and some mech. properties of films made thereof are presented. Geniomer 80 is mixed with dimethoxymethylsilyl- and trimethylsilyl-terminated PDMS, <b>aminopropyltrimethoxysilane</b> , a tin catalyst (made from dibutyltin diacetate and tetraethoxysilane), and octylphosphonic acid.				
CC	42-11 (Coatings, Inks, and Related Products) Section cross-reference(s): 39				
ST	thermoplastic sealant siloxane urea polymer silicone rubber blend				
IT	Polyureas RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (polysiloxane-, Geniomer 80, blends; properties of thermoplastic sealing <b>comps.</b> containing siloxane-urea copolymer and <b>moisture-curable</b> silicone rubber)				
IT	Polysiloxanes, uses RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (polyurea-, Geniomer 80, blends; properties of thermoplastic sealing <b>comps.</b> containing siloxane-urea copolymer and <b>moisture-curable</b> silicone rubber)				
IT	Sealing <b>compositions</b> (properties of thermoplastic sealing <b>comps.</b> containing siloxane-urea copolymer and <b>moisture-curable</b> silicone rubber)				
IT	Polymer blends RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (siloxane-urea copolymer-silicone rubber; properties of thermoplastic sealing <b>comps.</b> containing siloxane-urea copolymer and <b>moisture-curable</b> silicone rubber)				
IT	Silicone rubber, uses RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (silyl-terminated, blends; properties of thermoplastic sealing <b>comps.</b> containing siloxane-urea copolymer and <b>moisture-curable</b> silicone rubber)				
IT	31900-57-9D, Dimethylsilanediol homopolymer, dimethoxymethylsilyl- or trimethylsilyl-terminated 42557-10-8 156809-29-9, Dimethoxymethylsilyl-terminated PDMS RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (blends; properties of thermoplastic sealing <b>comps.</b> containing siloxane-urea copolymer and <b>moisture-curable</b> silicone rubber)				
IT	4724-48-5, Octylphosphonic acid 13822-56-5, Aminopropyltrimethoxysilane RL: MOA (Modifier or additive use); USES (Uses) (properties of thermoplastic sealing <b>comps.</b> containing				

siloxane-urea copolymer and moisture-curable  
silicone rubber)

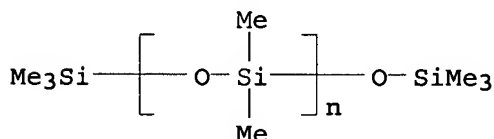
IT 42557-10-8 156809-29-9, Dimethoxymethylsilyl-terminated  
PDMS

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
engineered material use); USES (Uses)

(blends; properties of thermoplastic sealing compns.' containing  
siloxane-urea copolymer and moisture-curable  
silicone rubber)

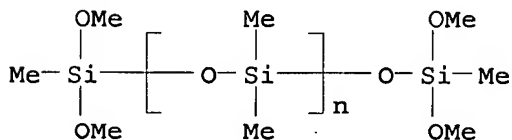
RN 42557-10-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -  
[(trimethylsilyl)oxy]- (CA INDEX NAME)



RN 156809-29-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(dimethoxymethylsilyl)- $\omega$ -  
[(dimethoxymethylsilyl)oxy]- (9CI) (CA INDEX NAME)



L60 ANSWER 6 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:182733 HCAPLUS

DN 142:262689

TI Low-dielectric nanoporous organosilicate polymer composite prepared from  
precursor of organic/inorganic hybrid polymer

IN Ree, Moonhor; Oh, Weontae; Hwang, Yong-Taek; Lee, Byeongdu

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005019303	A1	20050303	WO 2004-KR2104	20040820 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

	DE 112004000058	T5	20050901	DE 2004-112004000058	20040820 <--
	JP 2006515644	T	20060601	JP 2005-518200	20040820 <--
	US 2006014845	A1	20060119	US 2005-530815	20050408 <--

PRAI KR 2003-57992 A 20030821 <--  
 WO 2004-KR2104 W 20040820 <--

AB The organosilicate polymer composite is prepared by heating an organic/inorg. hybrid polymer in which an organosilicate polymer is chemical bonded to a radial pore-forming polymer ended with a hydrolyzable alkoxysilyl group and used as a core mol. The organosilicate polymer composite film has a very low dielec. constant, and is useful as a dielec. film of the semiconductor device.

IC ICM C08G065-32  
 ICS H01L021-31; H01L023-58

CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 76

ST nanoporous organosilicate polymer composite film dielec; silsesquioxane org inorg hybrid polymer

IT Silsesquioxanes  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Et; low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT Silsesquioxanes  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Me; low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT Silsesquioxanes  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (hydrogen; low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT Dielectric films  
 Hybrid organic-inorganic materials  
 Semiconductor devices  
 (low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT Polyesters, uses  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT Silsesquioxanes  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

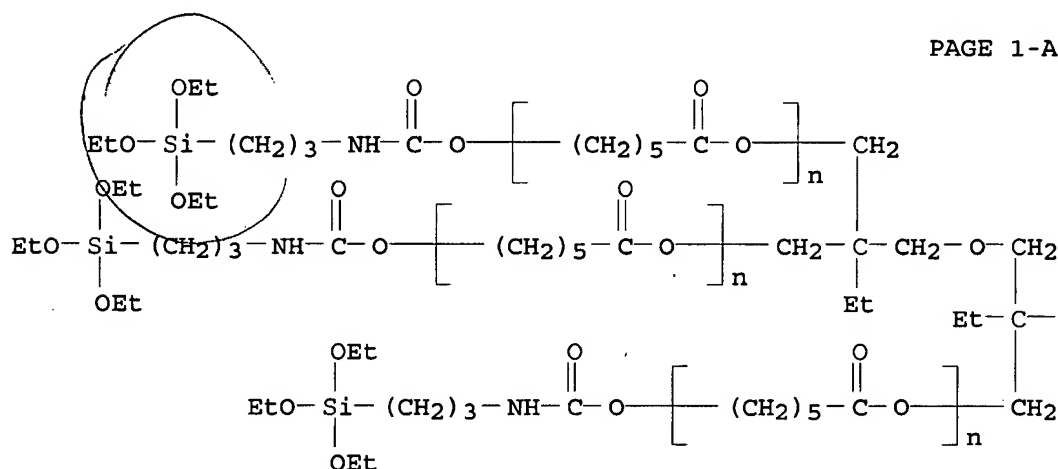
IT Pore  
 (nanopore; low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT Nanostructures  
 (nanopores; low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

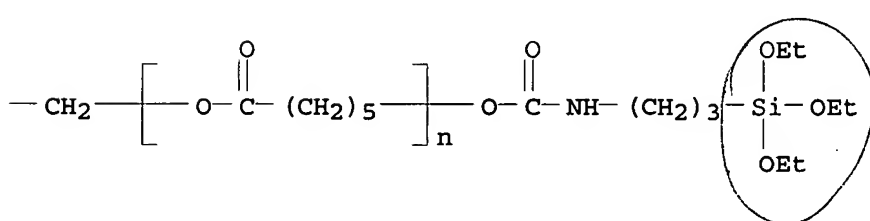
IT 76246-29-2P 162549-45-3P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

IT 816457-20-2P 816457-23-5P 846013-96-5P  
 846013-98-7P 846014-00-4P 846014-02-6P  
 846014-04-8P 846014-06-0P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (low-dielec. nanoporous organosilicate polymer composite prepared from

precursor of organic/inorg. hybrid polymer)  
 IT 24801-88-5, 3-Isocyanatopropyltriethoxysilane  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (low-dielec. nanoporous organosilicate polymer composite prepared from  
 precursor of organic/inorg. hybrid polymer)  
 IT 816457-20-2P 816457-23-5P 846013-96-5P  
 846013-98-7P 846014-00-4P 846014-02-6P  
 846014-04-8P 846014-06-0P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (low-dielec. nanoporous organosilicate polymer composite prepared from  
 precursor of organic/inorg. hybrid polymer)  
 RN 816457-20-2 HCAPLUS  
 CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[[[3-  
 (triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with  
 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA  
 INDEX NAME)

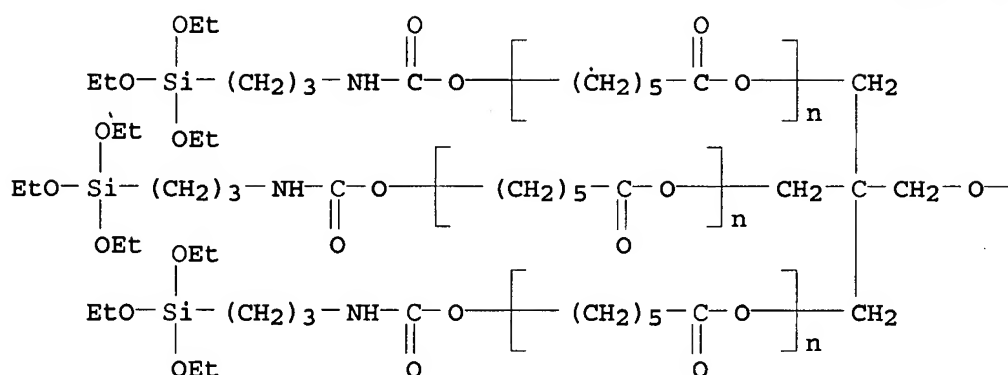


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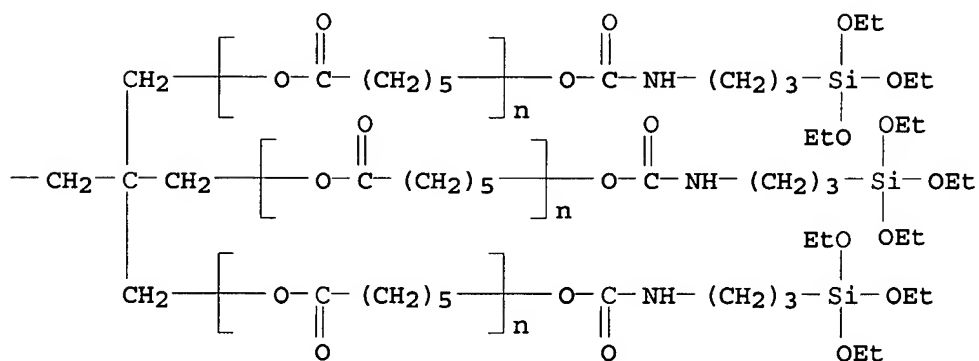


RN 816457-23-5 HCAPLUS  
 CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[[[3-  
 (triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with  
 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI)  
 (CA INDEX NAME)

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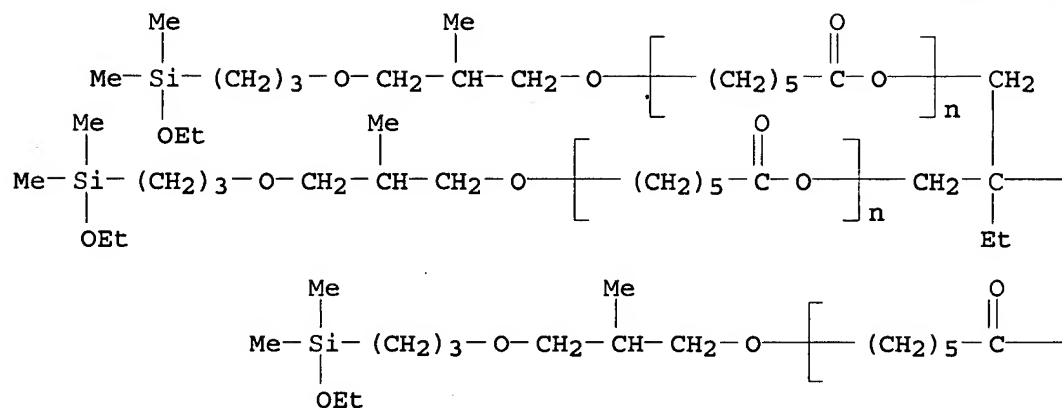
PAGE 1-B

*alkoxy*

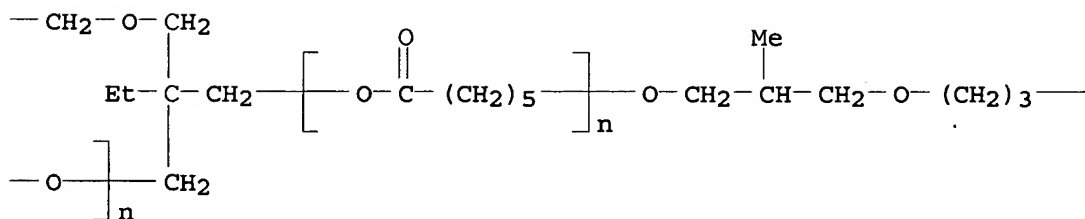
RN 846013-96-5 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[3-[3-(ethoxydimethylsilyl)propoxy]-2-methylpropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

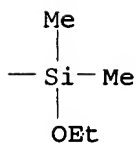
PAGE 1-A



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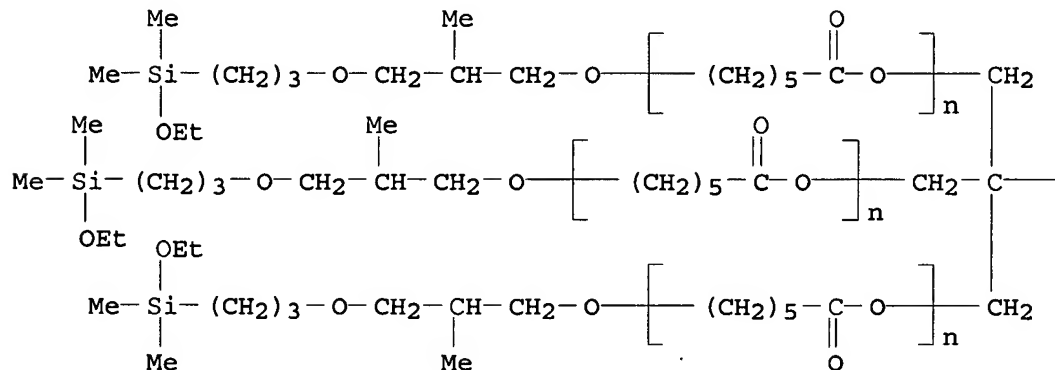
RN 846013-98-7 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[3-[3-(ethoxydimethylsilyl)propoxy]-2-methylpropoxy]-, ester with

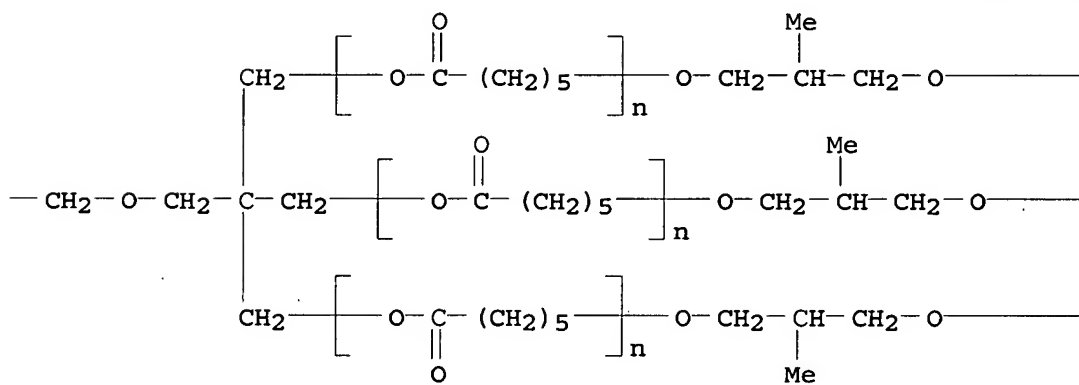
KATHLEEN FULLER EIC1700 REMSEN 4B28 571/272-2505

2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI)  
(CA INDEX NAME)

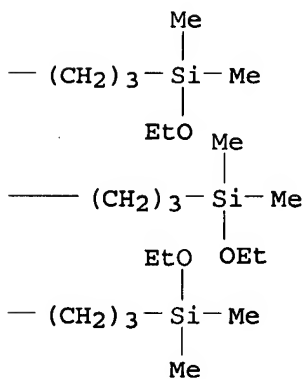
PAGE 1-A



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PAGE 1-C

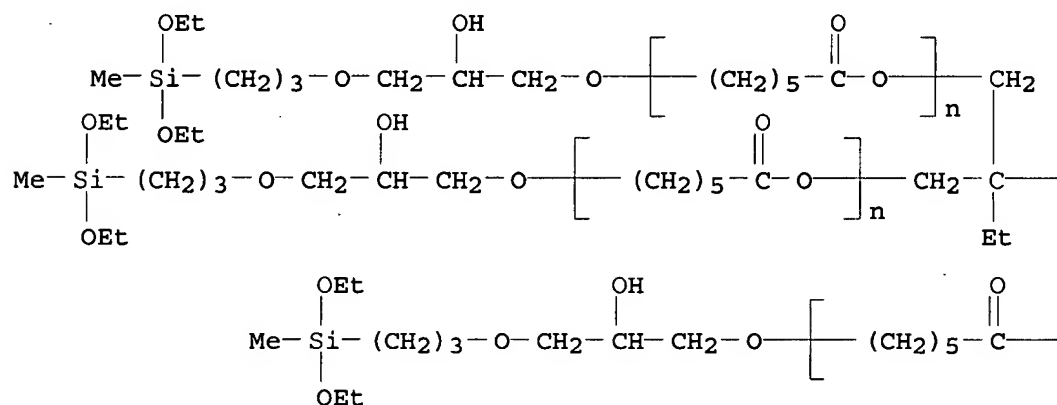




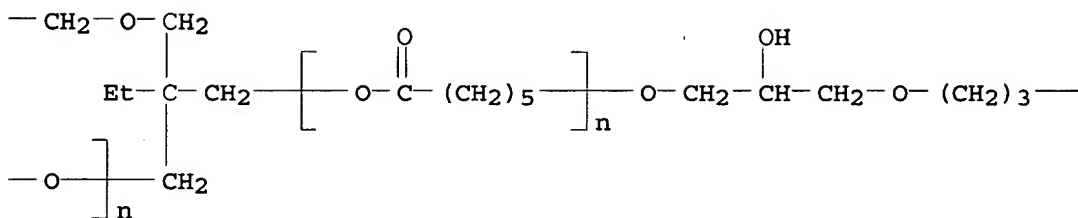
RN 846014-00-4 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[3-[3-(diethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

PAGE 1-A

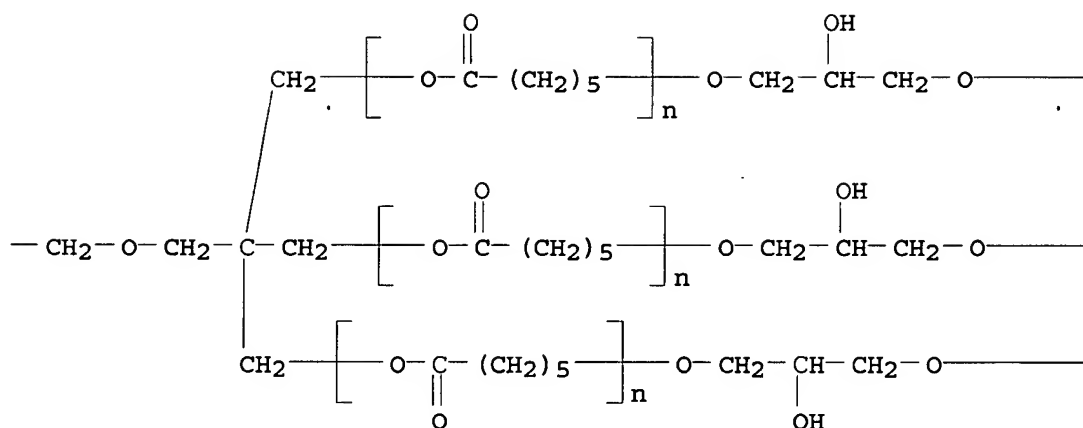


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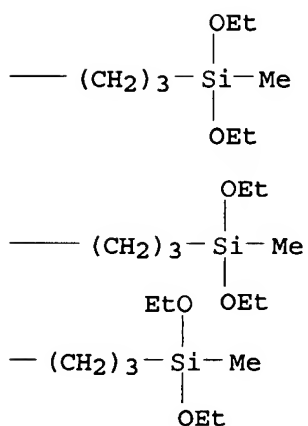




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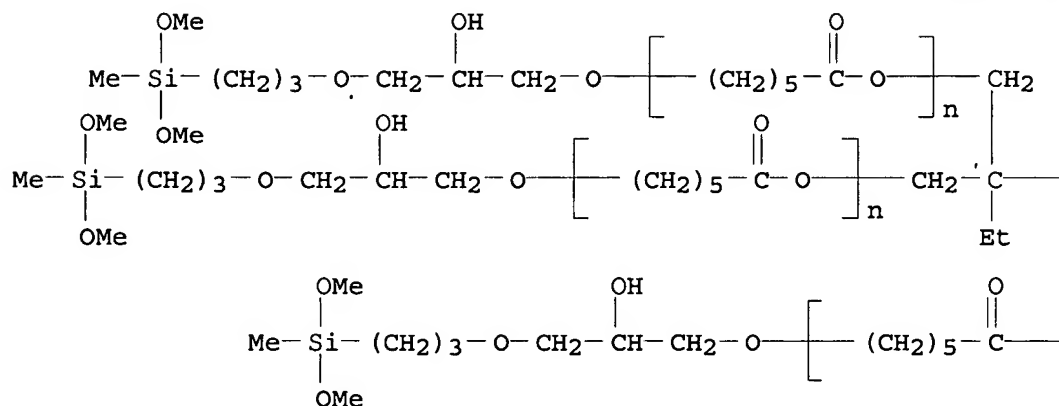
PAGE 1-C



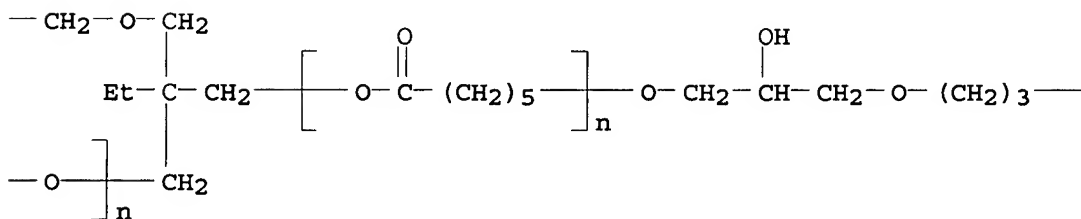
RN 846014-04-8 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[3-[3-(dimethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

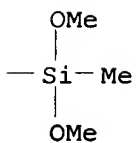
PAGE 1-A



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PAGE 1-C



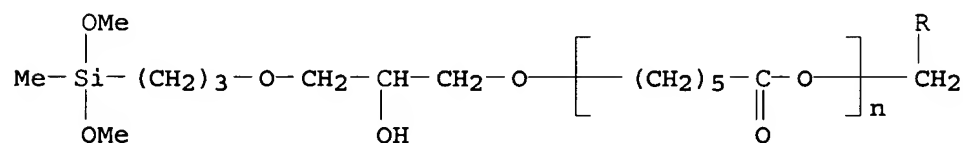
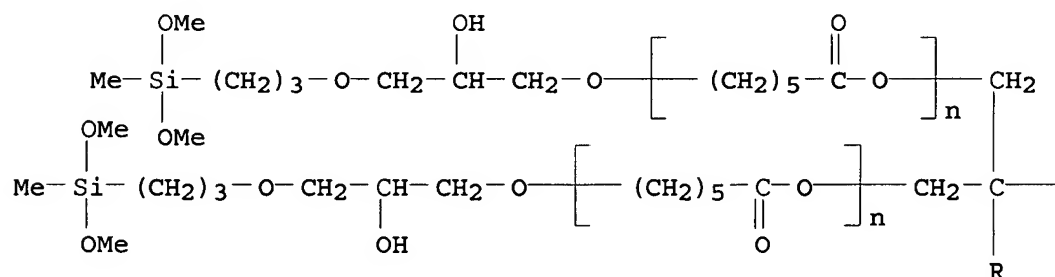
RN 846014-06-0 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)],  $\alpha$ -hydro- $\omega$ -[3-[3-(dimethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with

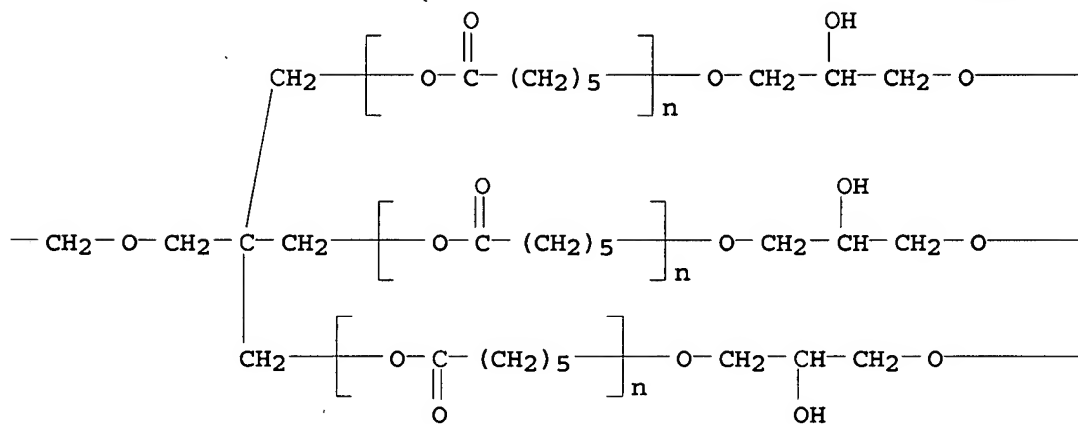
KATHLEEN FULLER EIC1700 REMSEN 4B28 571/272-2505

2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI)  
(CA INDEX NAME)

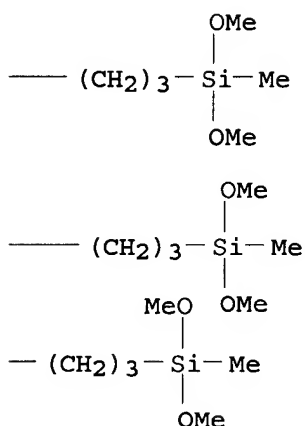
PAGE 1-A



PAGE 1-B



PAGE 1-C



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 7 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:122830 HCAPLUS

DN 142:199558

TI Heat-curable organopolysiloxane composition for adhesive with good  
adhesion

IN Onai, Satoshi; Hara, Hiroyasu; Suzuki, Akio

PA Shin-Etsu Chemical Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005032989	A1	20050210	US 2004-910654	20040804 <--
	JP 2005053966	A	20050303	JP 2003-206100	20030805 <--
PRAI	JP 2003-206100	A	20030805	<--	

AB Title composition for pressure sensitive adhesive comprises (A) hydroxy-terminated a diorganopolysiloxane, (B) an organopolysiloxane resin comprising monofunctional siloxane units and SiO<sub>2</sub> units, (C) a compound having ≥2 allyloxycarbonyl groups CH<sub>2</sub>:CHCH<sub>2</sub> O(CO), an allyl group-containing isocyanurate compound, and/or an alkoxysilyl group-containing isocyanurate compound, and (D) a curing agent. Thus, 50 parts hydroxy-terminated dimethylpolysiloxane and 50 parts silicate containing hydroxy group were condensated, 100 parts of the resulting condensated polysiloxane was mixed with 1.6 parts Triam 805 and 0.8 parts bis(3-methylbenzoylperoxide), applied on a release agent-treated polyethylene terephthalate film, heat-treated at 80° for 10 min to give an adhesive film with shear adhesion 80.5 kg/cm<sup>2</sup> and good adhesion.

IC ICM C08G077-04

INCL 525477000

CC 38-3 (Plastics Fabrication and Uses)

ST heat curable organopolysiloxane compn adhesive adhesion; polysiloxane silicate Triam homopolymer adhesion promoter adhesive film

IT Polysiloxanes, uses

Silsesquioxanes

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

- (adhesion promoters; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT Adhesion promoters  
(heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT Silsesquioxanes  
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
(polysiloxane-, adhesion promoters; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT Adhesive films  
Adhesives  
(pressure-sensitive; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT Polysiloxanes, uses  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(silicate-; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT Polysiloxanes, uses  
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
(silsesquioxane-, adhesion promoters; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT Adhesives  
(thermosetting; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT 13360-98-0DP, Triam 805, hydrosilylation with hydrogen-containing polysiloxanes 26182-73-0P 26947-14-8DP, hydrosilylation with hydrogen-containing polysiloxanes 127778-65-8P 837461-15-1P 837461-25-3P  
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
(adhesion promoter; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT 131-17-9 26903-80-0 837461-34-4  
RL: MOA (Modifier or additive use); USES (Uses)  
(adhesion promoter; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT 26403-67-8DP, hydrosilylation with allyl-containing compds. 49718-23-2DP, Methylsilanediol homopolymer, **trimethylsilyl-terminated, hydrosilylation** with allyl-containing compds.  
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
(assumed monomers, adhesion promoter; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT 31900-57-9DP, Dimethylsilanediol homopolymer, hydroxy-terminated, reaction products with hydroxy-containing silicates  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(assumed monomers; heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT 12627-13-3DP, Silicate, hydroxy-containing, reaction products with hydroxy-terminated polysiloxanes 31692-79-2DP, reaction products with hydroxy-containing silicates  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(heat-curable organopolysiloxane composition for adhesive with good adhesion)
- IT 26947-14-8DP, hydrosilylation with hydrogen-containing polysiloxanes

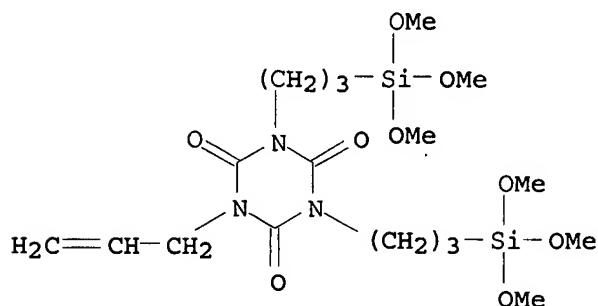
127778-65-8P 837461-15-1P 837461-25-3P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(adhesion promoter; heat-curable organopolysiloxane composition for adhesive with good adhesion)

RN 26947-14-8 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1'-(2-propen-1-yl)-3,5-bis[3-(trimethoxysilyl)propyl]- (CA INDEX NAME)



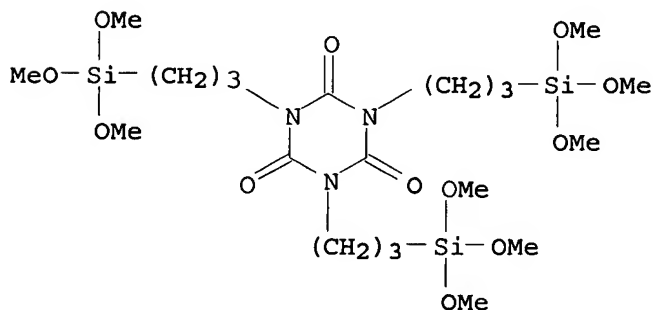
RN 127778-65-8 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 26115-70-8

CMF C21 H45 N3 O12 Si3



RN 837461-15-1 HCAPLUS

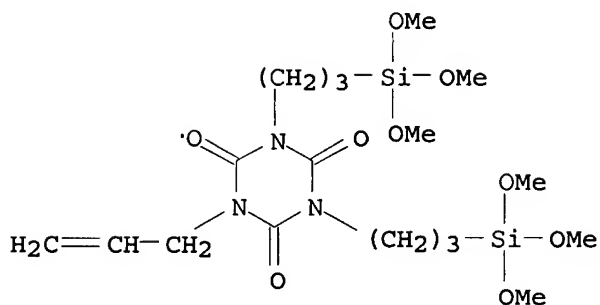
CN 1,2,4,5-Benzenetetracarboxylic acid, tetra-2-propenyl ester, polymer with 1-(2-propenyl)-3,5-bis[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI) (CA INDEX NAME)

CM 1

CRN 26947-14-8

CMF C18 H35 N3 O9 Si2

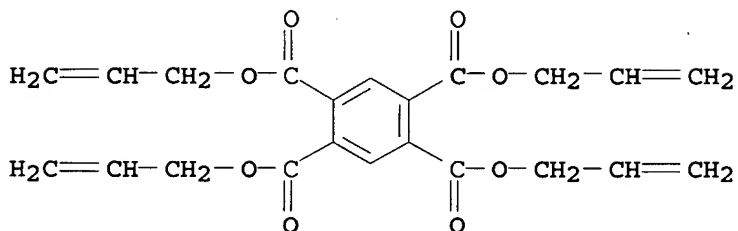




CM 2

CRN 13360-98-0

CMF C22 H22 O8



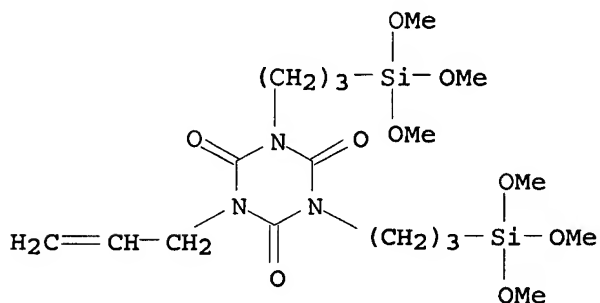
RN 837461-25-3 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1-(2-propenyl)-3,5-bis[3-(trimethoxysilyl)propyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 26947-14-8

CMF C18 H35 N3 O9 Si2



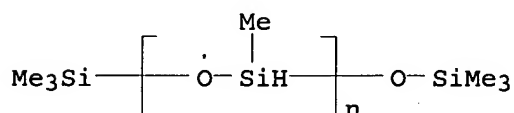
IT 26403-67-8DP, hydrosilylation with allyl-containing compds.

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(assumed monomers, adhesion promoter; heat-curable organopolysiloxane composition for adhesive with good adhesion)

RN 26403-67-8 HCAPLUS

CN Poly[oxy(methylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -  
 [(trimethylsilyl)oxy]- (CA INDEX NAME)



L60 ANSWER 8 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:510212 HCAPLUS

DN 141:55626

TI Low modulus polysiloxane compositions curing at room temperature

IN Scheim, Uwe; Ziche, Wolfgang

PA Wacker-Chemie GmbH, Germany

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1431330	A1	20040623	EP 2003-29220	20031218 <--
	EP 1431330	B1	20051109		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10259613	A1	20040708	DE 2002-10259613	20021219 <--
	US 2004122199	A1	20040624	US 2003-729102	20031205 <--
	US 7151150	B2	20061219		
	KR 2004054499	A	20040625	KR 2003-88511	20031208 <--
	JP 2004197097	A	20040715	JP 2003-418100	20031216 <--
	CN 1508187	A	20040630	CN 2003-10123309	20031218 <--
PRAI	DE 2002-10259613	A	20021219	<--	

AB A room temperature curable polysiloxane composition containing (a) hydroxy group-

terminated polysiloxanes, (b) optionally plasticizer, (c) chain extender R<sub>1</sub>2NCR62SiR<sub>1</sub>(OR<sub>2</sub>)<sub>2</sub> (I) or/and partly hydrolyzed I (R<sub>1</sub> and R<sub>2</sub> = monovalent optionally substituted hydrocarbon radical, R<sub>6</sub> = H or monovalent optionally substituted hydrocarbon radical), (d) deactivator, such as isocyanates, (e) R<sub>3</sub>Si(OR<sub>4</sub>)<sub>3</sub> (II) or/and partly hydrolyzed II (R<sub>3</sub> = same as R<sub>1</sub>, R<sub>4</sub> = monovalent optionally substituted hydrocarbon radical or C(O)R<sub>5</sub> or N:CR<sub>5</sub>2, R<sub>5</sub> = same as R<sub>2</sub>), and (e) optionally hydrosilylation catalysts has improved storage stability and are used for manufacture of low modulus silicone rubber. This polysiloxane composition contains also optionally silane crosslinker having  $\geq 3$  OR group (R = any organic radical), filler and catalysts for the condensation reaction and is useful for molded- part manufacturing Thus,

mixing

$\alpha$ , $\omega$ - dihydroxydimethylpolysiloxane 500, trimethylsilyl-

terminated dimethylpolysiloxane (plasticizer)

500, and Et<sub>2</sub>NCH<sub>2</sub>SiMe(OEt)<sub>2</sub> (chain extender) 4 weight parts gives a composition with relative viscosity 1300. This composition, mixed with 2 weight parts of cyclohexyl isocyanate (deactivator), 30 weight parts of methyltrimethoxysilane and 0.15 weight parts of zinc acetylacetonate exhibits only slight decreasing of the viscosity (from 1300 to 860 after 3 days) compared with the same composition without deactivator (from 560 to 170).

IC ICM C08G077-26

ICS C08K005-544

- CC 39-10 (Synthetic Elastomers and Natural Rubber)
- ST low modulus silicone rubber curable room temp; hydroxy group  
**terminated polysiloxane plasticizer chain**  
extender deactivator isocyanate; vulcanized silicone rubber improved  
storage stability prep; **dihydroxydimethylpolysiloxane**  
**trimethylsilyl terminated dimethylpolysiloxane**  
**diethylaminomethylmethyldiethoxysilane** curable  
**polysiloxane compn**
- IT Vulcanization accelerators and agents  
(neg.; room-temperature- curable compns. containing hydroxy group-  
**terminated polysiloxanes, plasticizer,**  
silane chain extender, isocyanate deactivator and, optionally, other  
silanes for silicone rubber preparation)
- IT Polysiloxanes, uses  
RL: POF (Polymer in formulation); USES (Uses)  
(reaction products; room-temperature- curable compns. containing hydroxy  
group-  
**terminated polysiloxanes, plasticizer,**  
silane chain extender, isocyanate deactivator and, optionally, other  
silanes for silicone rubber preparation)
- IT **Plasticizers**  
(room-temperature- curable compns. containing hydroxy group-**terminated**  
**polysiloxanes, plasticizer,** silane chain extender,  
isocyanate deactivator and, optionally, other silanes for silicone  
rubber preparation)
- IT Silicone rubber, preparation  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP  
(Preparation); USES (Uses)  
(room-temperature- curable compns. containing hydroxy group-**terminated**  
**polysiloxanes, plasticizer,** silane chain extender,  
isocyanate deactivator and, optionally, other silanes for silicone  
rubber preparation)
- IT 2224-33-1 17689-77-9, Ethyltriacetoxysilane 22984-54-9,  
Methyltris(ethylmethyletoxime)silane  
RL: MOA (Modifier or additive use); USES (Uses)  
(VULCANIZATION AGENT; room-temperature- curable compns. containing hydroxy  
group-  
**terminated polysiloxanes, plasticizer,**  
silane chain extender, isocyanate deactivator and, optionally, other  
silanes for silicone rubber preparation)
- IT 17961-68-1  
RL: MOA (Modifier or additive use); USES (Uses)  
(chain extender; room-temperature- curable compns. containing hydroxy group-  
**terminated polysiloxanes, plasticizer,**  
silane chain extender, isocyanate deactivator and, optionally, other  
silanes for silicone rubber preparation)
- IT 42557-10-8, Dimethylsilanediol homopolymer, sru trimethylsilyl-terminated  
RL: MOA (Modifier or additive use); USES (Uses)  
(**plasticizer;** room-temperature- curable compns. containing hydroxy  
group-**terminated polysiloxanes, plasticizer**  
, silane chain extender, isocyanate deactivator and, optionally, other  
silanes for silicone rubber preparation)
- IT 3173-53-3, Cyclohexyl isocyanate  
RL: MOA (Modifier or additive use); USES (Uses)  
(room-temperature- curable compns. containing hydroxy group-**terminated**  
**polysiloxanes, plasticizer,** silane chain extender,  
isocyanate deactivator and, optionally, other silanes for silicone  
rubber preparation)
- IT 1185-55-3, Methyltrimethoxysilane 2768-02-7, Vinyltrimethoxysilane  
13822-56-5, 3-Aminopropyltrimethoxysilane 31692-79-2, Dimethylsilanediol

homopolymer, sru hydroxy-terminated 31900-57-9D, Dimethylsilanediol  
 homopolymer, hydroxyl- and trimethylsilyl group-terminated  
 RL: POF (Polymer in formulation); USES (Uses)  
 (room-temperature- curable compns. containing hydroxy group-terminated  
**polysiloxanes, plasticizer, silane chain extender,**  
 isocyanate deactivator and, optionally, other silanes for silicone  
 rubber preparation)

L60 ANSWER 9 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:371026 HCAPLUS

DN 140:392024

TI Continuous process for producing **moisture-curable**  
 hot-melt adhesive **compositions**

IN Be, Anh; Cai, Yuhao; Lower, Loren

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004037941	A2	20040506	WO 2003-US25951	20030819 <--
	WO 2004037941	A3	20040701		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
	PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,				
	TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2503137	A1	20040506	CA 2003-2503137	20030819 <--
	AU 2003258290	A1	20040513	AU 2003-258290	20030819 <--
	EP 1554356	A2	20050720	EP 2003-809507	20030819 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2006503958	T	20060202	JP 2004-546706	20030819 <--
PRAI	US 2002-420575P	P	20021022 <--		
	WO 2003-US25951	W	20030819 <--		

AB The method comprises feeding a melted mixture of an  
**organopolysiloxane** (e.g., **trimethoxysilylethyldimethylsilyl**\*)  
 \* - **terminated polydimethylsiloxane**), silicone resin  
 (e.g., **trimethylsiloxy-** and **dimethylvinylsiloxy-**  
**terminated methylsilanetriol-silicic acid copolymer**),  
 silane crosslinker (e.g., isobutyltrimethoxysilane), catalyst (e.g.,  
 tetra(tert-butyl)titanium) and solvent into an extruder and removing the  
 volatiles. By using a continuous process it is possible to control the  
 nonvolatile content and produce a consistent product. Upon exposure to  
 moisture the holt melt adhesive **composition** cures resulting in  
 adhesion between two substrates.

IC ICM C09J183-04

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 58, 76

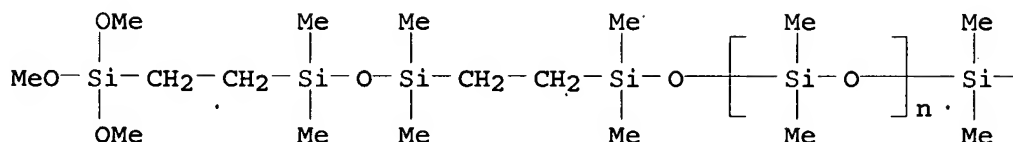
ST polysiloxane hot melt adhesive continuous prodn; **moisture**  
**curable** hot melt adhesive

IT Crosslinking agents

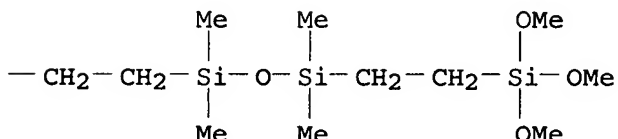
Crosslinking catalysts

- (continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT Polysiloxanes, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT Construction materials  
Electric apparatus  
Laminated materials  
(continuous process for producing moisture-curable hot-melt adhesive compns. for)
- IT Adhesives  
(hot-melt, moisture-curable; continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT 31692-79-2, Silanol-terminated polydimethylsiloxane  
31900-57-9D, Dimethylsilanediol homopolymer, trimethoxysilylethyltrimethylsilyl-terminated  
160313-14-4 160480-15-9 364602-57-3D, trimethylsiloxy- and dimethylvinylsiloxy-terminated 364602-57-3D, trimethylsiloxy-terminated  
RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(compns. containing; continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT 77-58-7, Dibutyltin dilaurate 3068-89-1, Tetraethyl titanium  
27858-32-8, Diisopropoxy bis(ethylacetoacetato) titanium 113361-32-3, Tetra(tert-butyl)titanium  
RL: CAT (Catalyst use); USES (Uses)  
(continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT 31900-57-9D, Dimethylsilanediol homopolymer, silanol-terminated  
RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT 18395-30-7, Isobutyltrimethoxysilane  
RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(crosslinking agent, compns. containing; continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT 2224-33-1, Vinyltri(methylethylketoxime)silane 22984-54-9, Methyltri(methylethylketoxime)silane  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(crosslinking agent, compns. containing; continuous process for producing moisture-curable hot-melt adhesive compns.)
- IT 160313-14-4 160480-15-9  
RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(compns. containing; continuous process for producing moisture-curable hot-melt adhesive compns.)
- RN 160313-14-4 HCAPLUS  
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]- $\omega$ -[[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

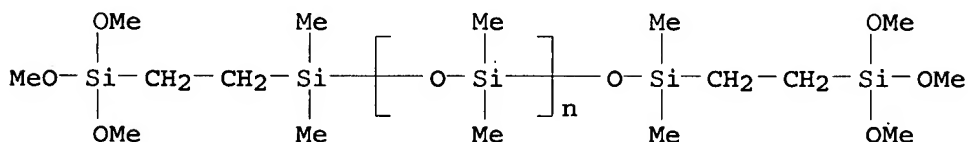


PAGE 1-B



RN 160480-15-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(trimethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]- (CA INDEX NAME)



L60 ANSWER 10 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:907128 HCAPLUS

DN 139:382234

TI Self-adhesive organopolysiloxane compositions containing borate esters with excellent low-temperature curability and adhesion to plastics without primers

IN Ikeno, Masayuki; Akita, Takashi; Miyao, Takeshi

PA Shin-Etsu Chemical Industry Co., Ltd., Japan

50 Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 2003327833	A	20031119	JP 2002-131830	20020507 <--
PRAI	JP 2002-131830		20020507	<--	

AB The comps. contain 100 parts organopolysiloxanes (A) bearing  $\geq 2$  Si-bonded alkenyl groups, 0.5-5.0 mol (per 1 mol alkenyl groups of A) organohydrogenpolysiloxanes (B) bearing  $\geq 2$  Si-bonded H atoms, hydrosilylation catalysts (C), 0.1-10% tackifiers (D), 0.01-5 parts borate esters (E), and 0-3 parts alcs. (F). Thus, a composition containing dimethylvinylsilyl-terminated dimethylpolysiloxane 100, trimethylsilyl-terminated methylhydrogenpolysiloxane\*\*  
\* 1.5, Pt catalyst, glycidoxypyrpyl-containing cyclotetrasiloxane 3, tri-Et borate 0.5, and octyl alc. 0.2 part showed adhesion to Al and syndiotactic polystyrene 0.6 and 0.4 MPa, resp., after cured at 100° for 2 h.

IC ICM C08L083-07

ICS C08K005-00; C08K005-05; C08K005-55; C08L083-05; C09J011-00;  
C09J183-05; C09J183-07

CC 37-6 (Plastics Manufacture and Processing)  
Section cross-reference(s): 38

ST self adhesive organopolysiloxane low temp curability; hydrosilylation  
curing organohydrogensiloxane adhesion plastic substrate; polysiloxane  
borate ester adhesion primer free

IT Polysiloxanes, preparation  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)  
(Me hydrogen, reaction products with vinyl-containing polysiloxanes;  
primer-free self-adhesive organopolysiloxane compns. containing borate  
esters with good low-temperature curability and adhesion to plastics)

IT Polysiloxanes, preparation  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)  
(hydrosilylation-cured; primer-free self-adhesive organopolysiloxane  
compns. containing borate esters with good low-temperature curability and  
adhesion to plastics)

IT Adhesives  
(primer-free self-adhesive organopolysiloxane compns. containing borate  
esters with good low-temperature curability and adhesion to plastics)

IT 31900-57-9DP, \*\*\*Polydimethylsiloxane, dimethylvinylsilyl-  
terminated, reaction products with H-containing polysiloxanes  
49718-23-2DP, Methylsilanediol homopolymer, trimethylsilyl-terminated,  
reaction products with vinyl-containing polysiloxanes 155665-02-4DP,  
Dimethylsilanediol-methylvinylsilanediol copolymer, trimethylsilyl-  
terminated, reaction products with H-containing polysiloxanes  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)  
(assumed monomers; primer-free self-adhesive organopolysiloxane compns.  
containing borate esters with good low-temperature curability and adhesion  
to plastics)

IT 64-17-5, Ethanol, uses 111-87-5, n-Octyl alcohol, uses 150-46-9,  
Triethyl borate 688-71-1, Tripropyl borate 16941-12-1D, Chloroplatinic  
acid, complex with divinyltetramethyldisiloxane 30110-75-9D,  
Divinyltetramethyldisiloxane, complex with chloroplatinic acid  
RL: CAT (Catalyst use); USES (Uses)  
(primer-free self-adhesive organopolysiloxane compns. containing borate  
esters with good low-temperature curability and adhesion to plastics)

IT 26403-67-8DP, Trimethylsilyl-terminated  
methylhydrogensiloxane, reaction products with vinyl-containing  
polysiloxanes 59942-04-ODP, Dimethylvinylsilyl-  
terminated polydimethylsiloxane, reaction products with  
H-containing polysiloxanes 160308-76-9P, Trimethylsilyl-  
terminated polymethylhydrogensiloxane-  
vinyltrimethylsilyl-terminated  
polydimethylsiloxane copolymer  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)  
(primer-free self-adhesive organopolysiloxane compns. containing borate  
esters with good low-temperature curability and adhesion to plastics)

IT 2530-83-8 26115-70-8 84627-94-1  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
use); USES (Uses)  
(tackifier; primer-free self-adhesive organopolysiloxane compns. containing  
borate esters with good low-temperature curability and adhesion to plastics)

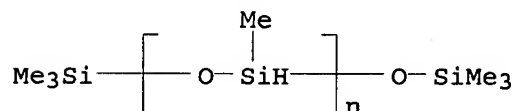
IT 26403-67-8DP, Trimethylsilyl-terminated  
methylhydrogensiloxane, reaction products with vinyl-containing

polysiloxanes 59942-04-0DP, Dimethylvinylsilyl-terminated polydimethylsiloxane, reaction products with H-containing polysiloxanes 160308-76-9P, Trimethylsilyl-terminated polymethylhydrogensiloxane-vinyldimethylsilyl-terminated polydimethylsiloxane copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (primer-free self-adhesive organopolysiloxane compns. containing borate esters with good low-temperature curability and adhesion to plastics)

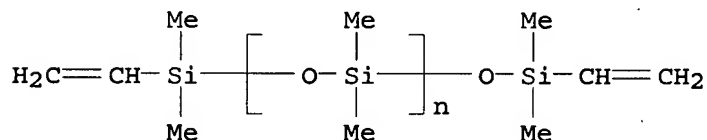
RN 26403-67-8 HCAPLUS

CN Poly[oxy(methylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (CA INDEX NAME)



RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



RN 160308-76-9 HCAPLUS

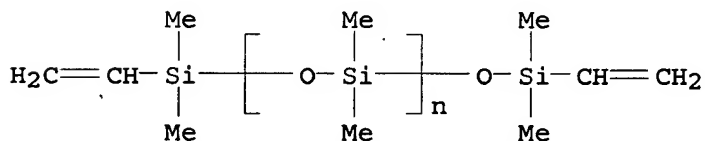
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]-, polymer with  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]poly[oxy(methylsilylene)] (9CI) (CA INDEX NAME)

CM 1

CRN 59942-04-0

CMF (C2 H6 O Si)<sub>n</sub> C8 H18 O Si2

CCI PMS



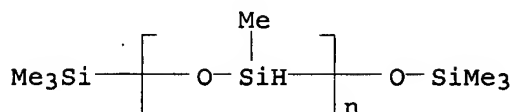
CM 2

CRN 26403-67-8

CMF (C H4 O Si)<sub>n</sub> C6 H18 O Si2

CCI PMS





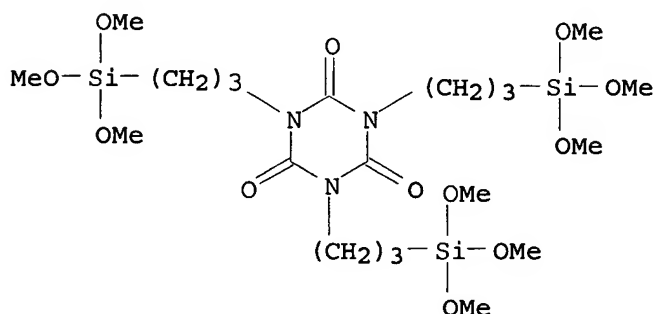
IT 26115-70-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(tackifier; primer-free self-adhesive organopolysiloxane compns. containing borate esters with good low-temperature curability and adhesion to plastics)

RN 26115-70-8 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (CA INDEX NAME)



L60 ANSWER 11 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:927504 HCAPLUS

DN 138:14762

TI Room temperature-curable silicone rubber compositions as sealants with improved bonding durability and long outdoor service life

IN Yoshitake, Makoto; Okabe, Kazutoshi; Harimoto, Yukinari

PA Dow Corning Toray Silicone Co., Ltd., Japan; Dow Corning Asia Ltd.

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002096993	A1	20021205	WO 2002-JP5247	20020529 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002356616	A	20021213	JP 2001-161704	20010530 <--
AU 2002302976	A1	20021209	AU 2002-302976	20020529 <--
EP 1392773	A1	20040303	EP 2002-730770	20020529 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

CN 1513033	A	20040714	CN 2002-810846	20020529 <--
JP 2003049072	A	20030221	JP 2002-156942	20020530 <--
US 2004176528	A1	20040909	US 2003-477156	20031107 <--
PRAI JP 2001-161703	A	20010530	<--	
JP 2001-161704	A	20010530	<--	
WO 2002-JP5247	W	20020529	<--	

AB The compns. comprise: (A) 100 parts a polydiorganosiloxane mixture, (B) 1-25 parts one or more alkoxysilanes, having formula  $R_5bSi(OR_6)_4-b$  ( $R_5$ ,  $R_6$ =monovalent hydrocarbyl,  $b=0$  or  $1$ ), or partial hydrolysis and condensation products thereof, and (C) 0.5-10 parts an organotitanium compound, wherein A comprises: (A-1) 20-95% a polydiorganosiloxane with both mol. terminals capped with dialkoxysilyls or trialkoxysilyls, (A-2) 5-80% a polydiorganosiloxane with a mol. terminal capped with dialkoxysilyl or trialkoxysilyl and the other mol. terminal capped with monoalkoxysilyl, hydrosilyl, trialkylsilyl or trialkoxyalkylsilyl, and (A-3) 0-30% a polydiorganosiloxane having both mol. terminals capped with monoalkoxysilyl, hydrosilyl, trialkylsilyl or trialkoxyalkylsilyl. Thus, reacting 500 g hydrosilyl-terminated polydimethylsiloxane with 2.88 g vinyltriethoxysilane in the presence of platinum complex hydrosilylation catalyst gave an A, 100 parts of which was mixed with 12 parts fumed silica (surface-treated), 4.5 g methyltrimethoxysilane and 3 parts tetra(tert-butoxy)titanium, 0.5 parts and other additives such as adhesion promotor and thickening agent to give a title composition

IC ICM C08L083-04

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39

ST polydimethylsiloxane vinyltriethoxysilane hydrosilylation product silicone rubber sealant compn; alkoxysilane crosslinking agent room temp curable silicone rubber compn

IT Silicone rubber, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(di-Me, (alkoxysilyl)-terminated; room

temperature-curable silicone rubber sealant compns. with improved bonding durability and long outdoor service life)

IT Silicone rubber, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(di-Me, Me hydrogen; room temperature-curable silicone rubber sealant

compns.

with improved bonding durability and long outdoor service life)

IT Polysiloxanes, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(di-Me, alkoxy-containing; room temperature-curable silicone rubber sealant compns. with improved bonding durability and long outdoor service life)

IT Polysiloxanes, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered

material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (di-Me, hydrogen-terminated; room temperature-curable silicone rubber sealant compns. with improved bonding durability and long outdoor service life)

IT Sealing compositions  
 (room-temperature-curable; silicone rubber sealant compns. with improved bonding durability and long outdoor service life)

IT 1185-55-3, Methyltrimethoxysilane  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (crosslinking agent; in room temperature-curable silicone rubber sealant compns. with improved bonding durability and long outdoor service life)

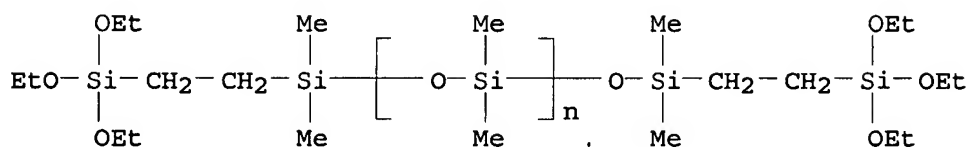
IT 3087-39-6, Tetra(tert-butoxy)titanium  
 RL: CAT (Catalyst use); USES (Uses)  
 (curing catalyst; in room temperature-curable silicone rubber sealant compns. with improved bonding durability and long outdoor service life)

IT 31900-57-9DP, Dimethylsilanediol homopolymer, **alkoxysilyl** or dimethylhydrogensilyl-terminated 118529-50-3P 156048-35-ODP, Dimethylsilanediol-methylphenylsilanediol copolymer, **trialkoxysilyl- or alkyltrialkoxysilyl-terminated** 210548-76-8P 477587-82-9P 477587-83-0P 477587-85-2P 477587-86-3P 477587-87-4P 477587-88-5P  
 RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (preps. of **polydimethylsiloxane** with varying **terminals** for room temperature-curable silicone rubber sealant compns.)

IT 78-08-0, Vinyltriethoxysilane 1438-79-5, 1,1,1,3,3-Pentamethyl-3-vinyldisiloxane 5356-83-2, Dimethylvinylethoxysilane 5356-84-3, Vinyltris(trimethylsiloxysilane) 16753-62-1, Vinylmethyldimethoxysilane 115254-29-0, Hydride-terminated poly(dimethylsiloxane) 156048-35-OD, Dimethylsilanediol-methylphenylsilanediol copolymer, hydride-terminated  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preps. of **polydimethylsiloxane** with varying **terminals** for room temperature-curable silicone rubber sealant compns.)

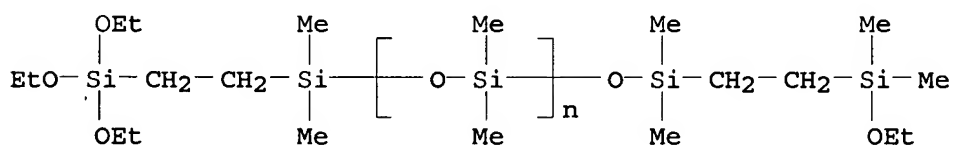
IT 210548-76-8P 477587-85-2P 477587-86-3P 477587-87-4P 477587-88-5P  
 RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (preps. of **polydimethylsiloxane** with varying **terminals** for room temperature-curable silicone rubber sealant compns.)

RN 210548-76-8 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



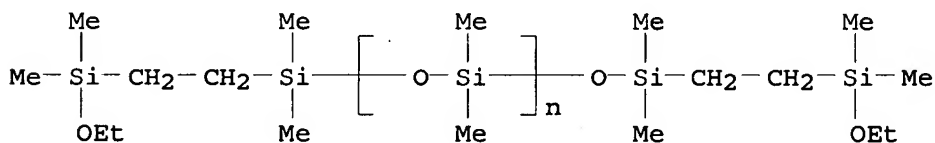
RN 477587-85-2 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- $\omega$ -[[[2-(ethoxydimethylsilyl)ethyl]dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



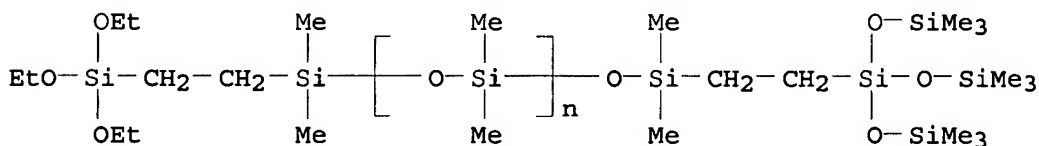
RN 477587-86-3 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[[2-(ethoxydimethylsilyl)ethyl]dimethylsilyl]- $\omega$ -[[[2-(ethoxydimethylsilyl)ethyl]dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



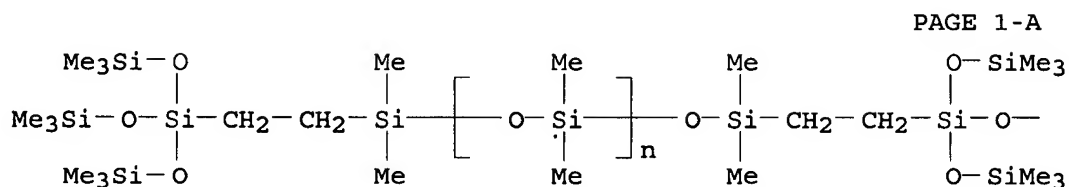
RN 477587-87-4 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



RN 477587-88-5 HCAPLUS

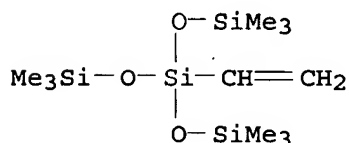
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]silyl]- $\omega$ -[[dimethyl[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



PAGE 1-B

—SiMe<sub>3</sub>

IT 5356-84-3, Vinyltris(trimethylsiloxysilane)  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preps. of polydimethylsiloxane with varying  
 terminals for room temperature-curable silicone rubber sealant  
 compns.)  
 RN 5356-84-3 HCAPLUS  
 CN Trisiloxane, 3-ethenyl-1,1,1,5,5,5-hexamethyl-3-[(trimethylsilyl)oxy]-  
 (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 12 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2002:676080 HCAPLUS  
 DN 137:202043  
 TI Mixed alkoxysilyl functional polymers  
 IN Lim, Thomas F.; Bachon, Thomas; Beuer, Bernd; Klein, Johann  
 PA Henkel Loctite Corporation, USA; Henkel Kommanditgesellschaft auf Aktien  
 SO PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002068501	A2	20020906	WO 2002-US3398	20020222 <--
	WO 2002068501	A3	20030306		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				

CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002251886 A1 20020912 AU 2002-251886 20020222 <--  
 EP 1373363 A2 20040102 EP 2002-720919 20020222 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2004116639 A1 20040617 US 2003-469096 20030825 <--  
 PRAI US 2001-270599P P 20010223 <--  
 WO 2002-US3398 W 20020222 <--

AB This invention relates to silylated polymers having mixed alkoxy groups on the silyl portion thereof, methods of their preparation, and **composns.** and reaction products formed therefrom. These alkoxysilylated polymers are crosslinkable when exposed to atmospheric moisture to become useful elastomers, sealants, or adhesives. The presence of different alkoxy groups on the silicon atoms controls or otherwise moderates the cure speeds of these silylated polymers. Thus, aging a mixture containing (EtO)<sub>3</sub>Si-capped polypropylene glycol 99.26, Sn catalyst 0.5, and 3-aminopropyltrimethoxysilane 0.25% 3 days at 50° gave a **composition** that exhibited skin-over and tack-free times 20 and 120 min in the presence of moisture.

IC ICM C08G065-00  
 CC 37-3 (Plastics Manufacture and Processing)  
 ST alkoxysilyl functional polyoxypropylene controlled **moisture curability**

IT **Polyoxyalkylenes, preparation**  
 RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)  
 (alkoxysilyl-terminated; mixed-alkoxysilyl  
 -functional polymers with controlled **moisture-curability**)

IT Epoxy resins, processes  
 Polyesters, processes  
 Polyethers, processes  
 Polyolefins  
 Polysiloxanes, processes  
 Polyurethanes, processes  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)  
 (alkoxysilyl-terminated; mixed-alkoxysilyl  
 -functional polymers with controlled **moisture-curability**)

IT Polyoxyalkylenes, preparation  
 RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)  
 (diols, reaction products with isocyanatotriethoxysilane;  
 mixed-alkoxysilyl-functional polymers with controlled **moisture-curability**)

IT Crosslinking  
 (mixed-alkoxysilyl-functional polymers with controlled **moisture-curability**)

IT 78-08-0, Vinyltriethoxysilane 2768-02-7, Vinyltrimethoxysilane  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (alkoxy exchange reactions of **alkoxysilanes** and  
**alkoxysilyl-terminated** polymers)

IT 13822-56-5, 3-Aminopropyltrimethoxysilane 25147-91-5,  
 3-(3-Aminopropylamino)propyltrimethoxysilane  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (alkoxy-exchange additive; mixed-alkoxysilyl-functional polymers with  
 controlled **moisture-curability**)

IT 15396-00-6DP, Silquest Y5187, reaction products with polypropylene oxide

diols 24801-88-5DP, Silquest A1310, reaction products with polypropylene oxide diols 25322-69-4DP, Polypropylene glycol, diols, reaction products with isocyanatotriethoxysilane 188571-36-0DP, Acclaim 4200, reaction products with isocyanatotriethoxysilane 278793-29-6DP, Acclaim 12200, reaction products with isocyanatotriethoxysilane

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)

(mixed-alkoxysilyl-functional polymers with controlled moisture -curability)

IT 79-10-7D, Acrylic acid, esters, polymers, alkoxysilyl-terminated 79-41-4D, Methacrylic acid, esters, polymers, alkoxysilyl-terminated

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)

(mixed-alkoxysilyl-functional polymers with controlled moisture-curability)

L60 ANSWER 13 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:449783 HCAPLUS

DN 137:34346

TI Polysiloxane-based thermoplastic rubber containing polyester resins

IN Chorvath, Igor; Gross, Craig; Gruszynski, Kenneth; Lee, Michael; Liao, Jun; Nakanishi, Koji; Rabe, Richard; Romenesko, David

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046310	A1	20020613	WO 2001-US46502	20011203 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 6417293	B2	20020709	US 2000-728920	20001204 <--
	US 2002103308	A1	20020801		
	TW 575638	B	20040211	TW 2001-90129675	20011130 <--
	AU 2002020206	A5	20020618	AU 2002-20206	20011203 <--
	EP 1354003	A1	20031022	EP 2001-999611	20011203 <--
	EP 1354003	B1	20040929		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AT 277976	T	20041015	AT 2001-999611	20011203 <--
	JP 2005501925	T	20050120	JP 2002-548037	20011203 <--
PRAI	US 2000-728920	A	20001204 <--		
	WO 2001-US46502	W	20011203 <--		

AB A method for preparing a thermoplastic elastomer comprises: (I) mixing (A) a thermoplastic resin comprising more than 50 percent by volume of a polyester resin (softening point 23-300°) other than poly(butylene terephthalate), (B) a silicone elastomer comprising (B') 100 parts of a diorganopolysiloxane gum having a plasticity of at least 30 and having an average of at least 2 alkenyl groups in its mol. and, optionally, (B'') up to 200 parts of a reinforcing filler, where the weight ratio of the

silicone elastomer to the thermoplastic resin is 35:65 to 85:15, (C) 0.02-5 phr of a stabilizer, the stabilizer being selected from hindered phenols; thioesters; hindered amines; 2,2'-(1,4-phenylene)bis(4H-3,1-benzoxazin-4-one); or 3,5-di-tert-butyl-4-hydroxybenzoic acid, hexadecyl ester, (D) an organohydrido silicon compound which contains an average of at least 2 silicon-bonded hydrogen groups in its mol. and (E) a hydrosilylation catalyst, components (D) and (E) being present in an amount sufficient to cure the diorganopolysiloxane (B'); and (II) dynamically curing the diorganopolysiloxane (B'). At least one property of the thermoplastic elastomer selected from tensile strength or elongation is at least 25% greater than the resp. property for a corresponding simple blend wherein the diorganopolysiloxane is not cured and the thermoplastic elastomer has an elongation of at least 30%.

- IC ICM C08L083-04
- ICS C08K005-13; C08L067-02
- CC 39-9 (Synthetic Elastomers and Natural Rubber)
- ST polysiloxane polyester thermoplastic rubber elastomer prodn
- IT Polyesters, properties
  - RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
  - (Eastapak; polysiloxane-based thermoplastic rubber containing polyester resins)
- IT Polyesters, uses
  - RL: POF (Polymer in formulation); USES (Uses)
  - (aromatic; polysiloxane-based thermoplastic rubber containing polyester resins)
- IT Amines, uses
  - Phenols, uses
  - RL: MOA (Modifier or additive use); USES (Uses)
  - (hindered, stabilizer; in polysiloxane-based thermoplastic rubber containing polyester resins)
- IT Antioxidants
  - (in polysiloxane-based thermoplastic rubber containing polyester resins)
- IT Silicone rubber, properties
  - RL: PRP (Properties)
  - (in polysiloxane-based thermoplastic rubber containing polyester resins)
- IT Polymer blends
  - Thermoplastic rubber
  - RL: PRP (Properties)
  - (polysiloxane-based thermoplastic rubber containing polyester resins)
- IT Esters, uses
  - RL: MOA (Modifier or additive use); USES (Uses)
  - (thio, stabilizer; in polysiloxane-based thermoplastic rubber containing polyester resins)
- IT 25038-59-9, Poly(ethylene terephthalate), properties
  - RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
  - (Eastapak; polysiloxane-based thermoplastic rubber containing polyester resins)
- IT 24968-11-4, Poly(ethylene naphthalate)
  - RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
  - (Hipertuf 40043; polysiloxane-based thermoplastic rubber containing polyester resins)
- IT 24936-69-4, Thermx 13787
  - RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
  - (THERMX 13787; polysiloxane-based thermoplastic rubber containing polyester resins)
- IT 424822-08-2
  - RL: CAT (Catalyst use); USES (Uses)
  - (in polysiloxane-based thermoplastic rubber containing polyester resins)
- IT 108-77-0D, 2,4,6-Trichloro-1,3,5-triazine, reaction products with morpholine, polymers with tetramethylpiperidinylhexanediamine 110-91-8D,



Morpholine, reaction products with trichlorotriazine, polymers with tetramethylpiperidinylohexanediamine 123-28-4, Dilauryl 3,3'-thiodipropionate 693-36-7, Distearyl 3,3'-thiodipropionate 1843-03-4, 1,1,3-Tris(2'-methyl-4'-hydroxy-5'-tert-butylphenyl)butane 6683-19-8, Irganox 1010 7631-86-9, Cab-O-Sil MS 75, uses 10595-72-9, Ditridecyl 3,3'-thiodipropionate 18600-59-4 23128-74-7, N,N'-Hexamethylenebis(3,5-di-tert-butyl-4-hydroxyhydrocinnamamide) 41556-26-7, Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate 52829-07-9, Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate 61260-55-7D, N,N'-Bis(2,2,6,6-tetramethyl-4-piperidinyl)-1,6-hexanediamine, polymers with morpholine and trichlorotriazine reaction products 65447-77-0, Dimethyl succinate-4-hydroxy-2,2,6,6-tetramethyl-1-piperidine ethanol copolymer 67845-93-6, Hexadecyl 3,5-di-tert-butyl-4-hydroxybenzoate 82451-48-7 164578-16-9, Methyl[3-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]propyl]silanediol homopolymer 164648-93-5, Poly[oxy[methyl[3-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]propyl]silylene]

RL: MOA (Modifier or additive use); USES (Uses)

(in polysiloxane-based thermoplastic rubber containing polyester resins)

IT 155665-02-4DP, Dimethylsilanediol-methylvinylsilanediol copolymer, dimethylvinylsilyl-terminated, reaction products with trimethylsilyl-terminated dimethylsilanediol-methylsilanediol copolymer and vinyl-terminated siloxanes 156118-35-3DP, Dimethylsilanediol-methylsilanediol copolymer, trimethylsilyl-terminated, reaction products with dimethylvinylsilyl-terminated dimethylsilanediol-methylvinylsilanediol copolymer and vinyl-terminated siloxanes

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)

(polysiloxane-based thermoplastic rubber containing polyester resins)

IT 9004-73-3, Methylsilanediol homopolymer, sru 28605-06-3 28779-82-0, Poly(butylene naphthalate) 49718-23-2, Methylsilanediol homopolymer 178955-62-9, Dimethylsilanediol-methylhexenylsilanediol copolymer

RL: POF (Polymer in formulation); USES (Uses)

(polysiloxane-based thermoplastic rubber containing polyester resins)

IT 25037-99-4, 1,4-Cyclohexanedimethanol-terephthalic acid copolymer 25230-87-9, Ethylene glycol-2,6-naphthalenedicarboxylic acid copolymer 25640-14-6, Eastapak 9921 26546-03-2, Corterra CP 509200 26590-75-0, 1,3-Propylene glycol-terephthalic acid copolymer

RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)

(polysiloxane-based thermoplastic rubber containing polyester resins)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 14 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:405772 HCAPLUS

DN 137:7640

TI Organopolysiloxane sealing compositions having improved adhesion strength for construction materials

IN Leempoel, Patrick; De Buyl, Francois; Deglasse, Patrick

PA Dow Corning SA, Belg.

SO Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1209201	A1	20020529	EP 2001-309644	20011115 <--

EP 1209201 B1 20051102  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2002091221	A1	20020711	US 2001-8282	20011107 <--
US 6780926	B2	20040824		
AT 308587	T	20051115	AT 2001-309644	20011115 <--
ES 2247021	T3	20060301	ES 2001-1309644	20011115 <--
CN 1354202	A	20020619	CN 2001-139371	20011121 <--
JP 2002201354	A	20020719	JP 2001-356457	20011121 <--
PRAI GB 2000-28254	A	20001121	<--	

OS MARPAT 137:7640

AB The compns. comprise: (A) a silicone having  $\geq 2$  hydrolyzable groups, e.g., triethoxysilylethylene-terminated polydimethylsiloxane, (B) a surface activated filler such as Cab-O-Sil LM 150 (a silica), (C) an organosilane crosslinker such as isobutyltrimethoxysilane, (D) a catalyst such as Bu titanate, and (E) an adhesion promoter having at least one hydrolyzable group such as Y 11597, i.e., 1,3,5-tris(trimethoxysilylpropyl) isocyanurate, wherein C is mixed with B prior to the introduction of E. The compns. are curable to elastomeric solids and are particularly suitable for sealing plastic window frames, laminates, bathtubs, etc.

IC ICM C08L083-04  
 ICS C08G077-06; C08K005-3492; C08K005-00

CC 42-11 (Coatings, Inks, and Related Products)

ST triethoxysilylethylene terminated polydimethylsiloxane polysiloxane adhesive sealing compn; isobutyltrimethoxysilane crosslinker plastic window frame sealing compn; silica activated filler isocyanurate adhesion promoter laminate sealing compn

IT Polysiloxanes, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (di-Me, plasticizer; organopolysiloxane sealing compns. for construction materials)

IT Adhesion promoters  
 Glues  
 Sealing compositions  
 (organopolysiloxane sealing compns. for construction materials)

IT Silsesquioxanes  
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (polyisocyanurate-polysiloxane-; organopolysiloxane sealing compns. for construction materials)

IT Polysiloxanes, uses  
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (polyisocyanurate-silsesquioxane-; organopolysiloxane sealing compns. for construction materials)

IT Polyisocyanurates  
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (polysiloxane-silsesquioxane-; organopolysiloxane sealing compns. for construction materials)

IT 78-08-0, Vinyltriethoxysilane 78-10-4, Tetraethoxysilane 1067-25-0, Propyltrimethoxysilane 1185-55-3, Methyltrimethoxysilane 2031-67-6, Methyltriethoxysilane 2768-02-7, Vinyltrimethoxysilane 2996-92-1, Phenyltrimethoxysilane 14346-37-3, Isopropyltrimethoxysilane 18395-30-7, Isobutyltrimethoxysilane  
 RL: MOA (Modifier or additive use); USES (Uses)

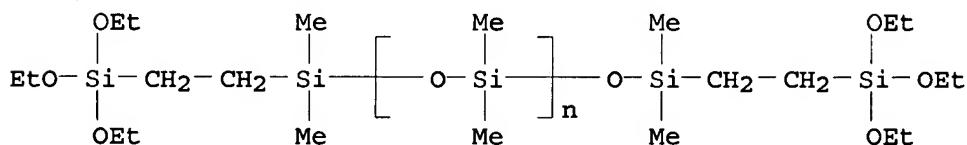
- (crosslinking agent; organopolysiloxane sealing compns. for construction materials)
- IT 5593-70-4  
RL: CAT (Catalyst use); USES (Uses)  
(organopolysiloxane sealing compns. for construction materials)
- IT 431078-05-6P,  $\gamma$ -Aminopropyltriethoxysilane- $\gamma$ -glycidoxypropyltrimethoxysilane-methyltrimethoxysilane-isobutyltrimethoxysilane-triethoxysilylethylene-terminated dimethylsiloxane-Y 11597 copolymer  
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
(organopolysiloxane sealing compns. for construction materials)
- IT 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated 42557-10-8, Dimethylsiloxane, trimethylsilyl-terminated  
RL: MOA (Modifier or additive use); USES (Uses)  
(plasticizer; organopolysiloxane sealing compns. for construction materials)
- IT 471-34-1, Calcium carbonate, uses 1314-13-2, Zinc oxide, uses 7631-86-9, Cab-O-Sil LM 150, uses 13463-67-7, Titania, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(surface activated filler; organopolysiloxane sealing compns. for construction materials)
- IT 9002-86-2, PVC  
RL: MSC (Miscellaneous)  
(unplasticized, substrate; organopolysiloxane sealing compns. for construction materials)
- IT 431078-05-6P,  $\gamma$ -Aminopropyltriethoxysilane- $\gamma$ -glycidoxypropyltrimethoxysilane-methyltrimethoxysilane-isobutyltrimethoxysilane-triethoxysilylethylene-terminated dimethylsiloxane-Y 11597 copolymer  
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
(organopolysiloxane sealing compns. for construction materials)
- RN 431078-05-6 HCAPLUS
- CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]-, polymer with  $\alpha$ -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]poly[oxy(dimethylsilylene)], 3-(triethoxysilyl)-1-propanamine, trimethoxy(2-methylpropyl)silane, trimethoxymethylsilane and trimethoxy[3-(oxiranylmethoxy)propyl]silane (9CI) (CA INDEX NAME)

CM 1

CRN 210548-76-8

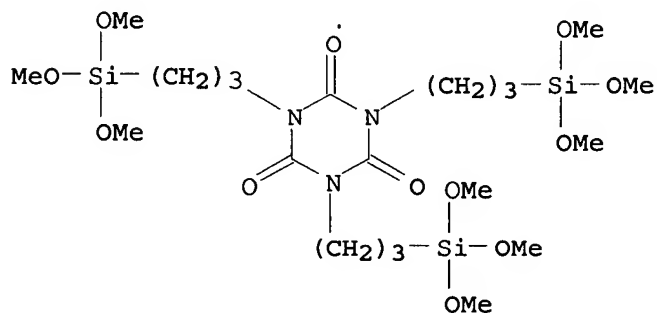
CMF (C2 H6 O Si)<sub>n</sub> C20 H50 O7 Si4

CCI PMS



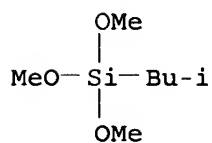
CM 2

CRN 26115-70-8  
CMF C21 H45 N3 O12 Si3



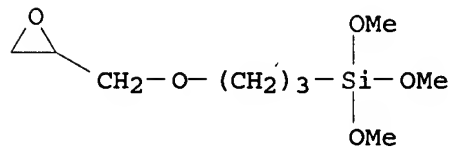
CM 3

CRN 18395-30-7  
CMF C7 H18 O3 Si



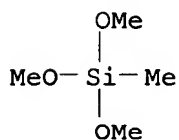
CM 4

CRN 2530-83-8  
CMF C9 H20 O5 Si



CM 5

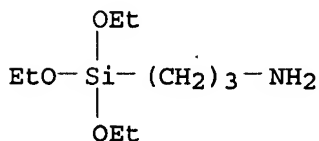
CRN 1185-55-3  
CMF C4 H12 O3 Si



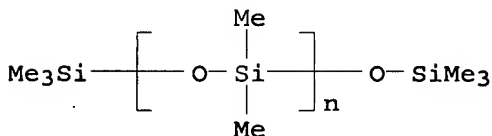
CM .6

CRN 919-30-2

CMF C9 H23 N O3 Si



IT 42557-10-8, Dimethylsiloxane, trimethylsilyl-terminated  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (plasticizer; organopolysiloxane sealing compns. for  
 construction materials)  
 RN 42557-10-8 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -  
 [(trimethylsilyl)oxy]- (CA INDEX NAME)



RE.CNT 2 . THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 15 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2002:216135 HCAPLUS  
 DN 136:248752  
 TI Electrically conductive hot-melt polysiloxane-based adhesive compositions  
 IN Kleyer, Don Lee; Lutz, Michael Andrew  
 PA Dow Corning Corporation, USA  
 SO Eur. Pat. Appl., 11 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1188810	A2	20020320	EP 2001-119482	20010814 <--
	EP 1188810	A3	20031022		
	EP 1188810	B1	20051109		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6433055	B1	20020813	US 2000-661416	20000913 <--
	TW 567218	B	20031221	TW 2001-90115605	20010627 <--
	AT 309310	T	20051115	AT 2001-119482	20010814 <--
	JP 2002155261	A	20020528	JP 2001-278813	20010913 <--
PRAI	US 2000-661416	A	20000913	<--	

AB Elec. conductive hot-melt polysiloxane-based adhesive compns. are prepared  
 Elec. conductive fillers, such as silver, gold, platinum, palladium and  
 their alloys, are used in amount sufficient to impart elec. conductivity to the  
 composition About 1% weight of a hydroxy-functional organic compound having a  
 mol. weight

up to 1000 and containing at least one hydroxy group is added to the composition

Examples of the hydroxy-functional organic compds. include ethylene glycol and 1,3-dihydroxyacetone dimer.

- IC ICM C09J183-04
- ICS C08L083-04; C08K003-08; C08K005-04
- CC 38-3 (Plastics Fabrication and Uses)
- ST elec conductive hot melt polysiloxane adhesive compn; ethylene glycol dihydroxyacetone silicone adhesive compn; metal filler elec conductive hot melt polysiloxane adhesive
- IT Electric conductors  
(adhesive; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)
- IT Adhesives  
(conductive; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)
- IT Hydroxy compounds  
RL: MOA (Modifier or additive use); USES (Uses)  
(elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)
- IT Polysiloxanes, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)
- IT Adhesives  
(hot-melt, reactive; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)
- IT Polysiloxanes, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(polyester-, block; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds.)
- IT Polyesters, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(siloxane-, block; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds.)
- IT 7440-22-4, Silver, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(SPEG and SF 22, conducting filler; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds.)
- IT 7440-05-3, Palladium, uses 7440-06-4, Platinum, uses 7440-50-8, Copper, uses 7440-57-5, Gold, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(conducting filler; elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds.)
- IT 107-21-1, Ethylene glycol, uses 26776-70-5, 1,3-Dihydroxyacetone dimer  
RL: MOA (Modifier or additive use); USES (Uses)  
(elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)
- IT 31900-57-9D, Dimethylsilanediol homopolymer, **trimethylsilyl-terminated or trimethoxysilylethyl-terminated**  
42557-10-8, Dimethyl siloxane, trimethylsilyl-terminated 120359-07-1 160480-15-9,  
**Polydimethylsiloxane, trimethoxysilylethyl-terminated**  
RL: PRP (Properties); TEM (Technical or engineered material use); USES

(Uses)

(elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)

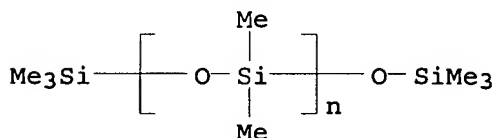
IT 42557-10-8, Dimethyl siloxane, trimethylsilyl-terminated 160480-15-9, Polydimethylsiloxane, trimethoxysilylethyl-terminated

RL: PRP (Properties); TEM' (Technical or engineered material use); USES' (Uses)

(elec. conductive hot-melt polysiloxane-based adhesive compns. containing hydroxy-functional organic compds. and metal fillers)

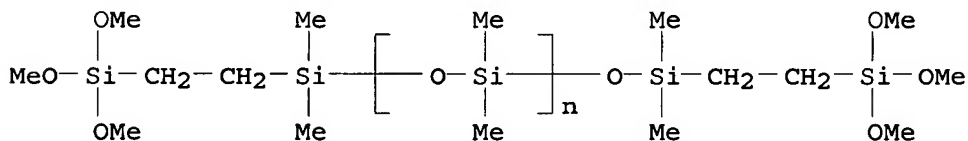
RN 42557-10-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (CA INDEX NAME)



RN 160480-15-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(trimethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]- (CA INDEX NAME)



L60 ANSWER 16 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:202283 HCAPLUS

DN 136:252272

TI Oil dispersion of coated powder, cosmetics containing the dispersion, and coated cosmetic powder

IN Hasegawa, Yukio; Ohara, Akira

PA Miyoshi Kasei Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002080748	A	20020319	JP 2000-275413	20000911 <--
PRAI	JP 2000-275413		20000911 <--		

AB The oil dispersion contains powder which is at least partly coated with layer (A) formed from a solid agent selected from reactive organopolysiloxanes, alkylsilanes, polyolefins, hydrogenated lecithins (salts), N-acylamino acids (salts), fatty acids (salts), and dextrin fatty acid esters and layer (B) formed from a liquid agent selected from organopolysiloxanes having functional group at one end, alkylsilanes, perfluoroalkylsilanes, and branched fatty acids (salts) and a lipophilic solvent as a dispersion medium. Cosmetics

containing the dispersion and cosmetic powder at least partly coated with (A) and (B) are also claimed. The dispersion are very stable and shows high storage stability. FSE (sericite) was mixed with KF 9901 (methylhydrogenpolysiloxane) and aqueous Me<sub>2</sub>CHOH solution at 80° for 30 min. The mixture was further mixed with X 24-9825 (dimethylpolysiloxane having silanol group at one end) and aqueous Me<sub>2</sub>CHOH solution at 100° for 60 min to give hybrid coated sericite. The sericite was dispersed in KF 96 (dimethylpolysiloxane) to give a dispersion. A powder foundation containing the dispersion was also manufactured

- IC ICM C09C001-00
- ICS A61K007-00; A61K007-02; C09C003-08; C09C003-10; C09C003-12
- CC 62-4 (Essential Oils and Cosmetics)
- ST coated cosmetic powder oil dispersion; sericite coating siloxane silanol terminated polysiloxane cosmetic
- IT Paraffin oils
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (Hicol K 230, dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Amino acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (N-acyl, salts; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Amino acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (N-acyl; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Lecithins
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (PL 100P; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Silanes
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (alkyl; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Fatty acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (branched; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Polysiloxanes, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (di-Me, Me hydrogen; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Lecithins
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (hydrogenated; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Paraffin oils
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (isoparaffin oils, Parleam 4, dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Fats and Glyceridic oils, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (macadamia nut, Cropure Macadamia, dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)
- IT Fatty acids, biological studies
  - Polyolefins
  - Polysiloxanes, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (oil dispersion of powder coated with solid agents and liquid agents for cosmetics)



IT Fatty acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (salts; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 3397-65-7, N-Lauroyl-L-glutamic acid  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Amisoft LA; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 12227-89-3, BL 100  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (BL 100; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 1805-22-7, Perfluoromethylcyclopentane  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Flutec PCI, dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 42131-27-1, Isotridecyl isononanoate  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (INTD 139, dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 111-01-3, Squalane  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Phytosqualan, dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 5314-55-6, Ethyltrimethoxysilane  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (SIE 4901.4; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 88468-45-5, Isooctyltrimethoxysilane  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (SII 6458.0; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 1314-13-2, Zinc oxide, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (UF20 350; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 9016-00-6, Poly[oxy(dimethylsilylene)]  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (X 24-9825; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 110-27-0, Crodamol IPM 123-86-4, Butyl acetate 541-02-6, VS 7158  
 6197-30-4, Eusolex OCR 42557-10-8, KF 96 74565-11-0, Finsolv  
 TN  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 1185-55-3, KBM 13 1309-37-1, Red iron oxide, biological studies  
 2530-85-0, A 174 2943-75-1, Octyltriethoxysilane 3069-42-9, TSL 8186  
 5575-48-4, KBM 3103 7631-86-9, P 1500, biological studies 9004-53-9D,  
 Dextrin, fatty acid esters 12174-53-7, FSE 13463-67-7, Titanium oxide  
 (TiO<sub>2</sub>), biological studies 30399-84-9, Isostearic acid 31900-57-9D,  
 Dimethylsilanediol homopolymer, **trimethoxysilyl-**  
**terminated** 31900-57-9D, Dimethylsilanediol homopolymer,  
 trimethylsilyl-terminated 51274-00-1, Mapico Yellow Lemon 56275-01-5,  
 BY 11-022 83048-65-1, TSL 8233 83271-10-7, Rheoparl KL 108192-82-1,  
 POWAX S 30 164849-42-7, X 24-9826 422277-88-1, Tipaque TTO 55A  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 12597-70-5, Bronze

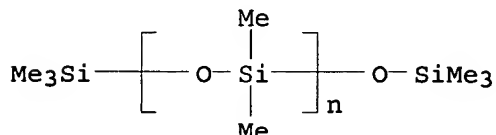
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(powder, TT 777; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

IT 42557-10-8, KF 96

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(dispersion medium; oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

RN 42557-10-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -  
[(trimethylsilyl)oxy]- (CA INDEX NAME)

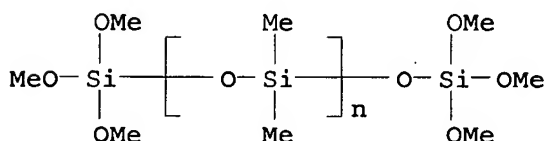


IT 164849-42-7, X 24-9826

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oil dispersion of powder coated with solid agents and liquid agents for cosmetics)

RN 164849-42-7 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethoxysilyl)- $\omega$ -  
[(trimethoxysilyl)oxy]- (9CI) (CA INDEX NAME)



L60 ANSWER 17 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:94285 HCAPLUS

DN 136:136665

TI Detergents for moisture-curable polymer  
compositions and cleaning method using them

IN Kusuda, Satoru

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002035705	A	20020205	JP 2000-222366	20000724 <--
PRAI	JP 2000-222366		20000724 <--		

AB The method comprises reaction of moisture-curable polymer compns. having hydrolyzable silyl groups with detergents having functional groups capable of reacting with the hydrolyzable silyl groups before curing. Thus, a mixer, which was used for mixing a moisture-curable adhesive composition containing a dimethoxysilyl-terminated polyoxyalkylene and a curing catalyst under N, was easily washed with a detergent composition containing triethoxysilyl (A 1310)-terminated

polyoxypropylene.  
 IC ICM B08B003-08  
 ICS B05D003-10; C11D007-22; C11D017-00; C11D017-08  
 CC 46-6 (Surface Active Agents and Detergents)  
 ST detergent cleaning **moisture curable** adhesive silyl;  
 methoxysilyl polyoxyalkylene adhesive cleaning ethoxysilyl  
 polyoxypropylene  
 IT Detergents  
 (liquid; detergents for **moisture-curable** polymer  
 compns.)  
 IT Adhesives  
 (**moisture-curable**; detergents for **moisture**  
**-curable** polymer compns.)  
 IT **Polyoxyalkylenes**, uses  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical  
 process); REM (Removal or disposal); TEM (Technical or engineered material  
 use); PROC (Process); USES (Uses)  
 (silyl-terminated, dimethoxysilyl-  
 terminated, **moisture-curable** adhesives;  
 detergents for **moisture-curable** polymer  
 compns.)  
 IT **Polyoxyalkylenes**, uses  
 RL: CPS (Chemical process); IMF (Industrial manufacture); NUU (Other use,  
 unclassified); PEP (Physical, engineering or chemical process); PREP  
 (Preparation); PROC (Process); USES (Uses)  
 (terminated with isocyanatopropyltriethoxysilane,  
 detergent; detergents for **moisture-curable** polymer  
 compns.)  
 IT 24801-88-5DP, Silquest A 1310, reaction products with polypropylene glycol  
 25322-69-4DP, terminated with isocyanatopropyltriethoxysila  
 ne  
 RL: CPS (Chemical process); IMF (Industrial manufacture); NUU (Other use,  
 unclassified); PEP (Physical, engineering or chemical process); PREP  
 (Preparation); PROC (Process); USES (Uses)  
 (detergent; detergents for **moisture-curable** polymer  
 compns.)

L60 ANSWER 18 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:194858 HCAPLUS

DN 134:238590

TI Room-temperature and **moisture-curable**  
**composition** with good workability, weatherability, adhesion, and  
 mechanical strength

IN Tsuruoka, Kaoru; Watabe, Takashi

PA Asahi Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001072854	A	20010321	JP 1999-247670	19990901 <--
PRAI	JP 1999-247670		19990901	<--	

AB The **composition** useful for adhesives and coatings, etc., comprises  
 (A) polyoxyalkylenes having 2 silicon-bonded hydrolyzable silyl groups,  
 (B) polyoxyalkylenes having hydrolyzable silyl groups derived by  
 introducing unsatd. terminals into OH-containing polyoxyalkylenes and reacting  
 with compds. having mercapto group and silyl groups having 3 hydrolyzable  
 groups, and (C) polymers derived from polymerizable unsatd. monomers.

Reacting polyoxypropylene glycerol ether (I) with allyl chloride, hydrosilation with  $\text{Me}(\text{MeO})_2\text{SiH}$ , mixing the resulting polymer with acrylonitrile and styrene and AIBN, and heating with a reaction product of allyl-terminated I and 3-mercaptopropyltrimethoxysilane gave the desired polymer composition with viscosity 17,000 cP and good workability. The composition with modulus regulator, filler, plasticizer, tackifier, curing catalyst and other additives gave an adhesive showing good adhesion and elongation.

IC ICM C08L071-00

ICS C08G065-321; C09K003-10

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 37, 42

ST room temp moisture curable compn;

polyoxyalkylene hydrolyzable silyl curable compn;

polyoxypropylene glycerol ether allyl terminated hydrosilated; adhesive

polyoxypropylene glycerol ether silyl terminated; acrylonitrile styrene copolymer moisture curable adhesive

IT Alcohols, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(C12-13, acrylate esters, acrylic polymers; room-temperature and moisture-curable composition with good

workability, weatherability, adhesion, and mech. strength)

IT Polyoxyalkylenes, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(reaction product with allyl chloride and hydrosilation with methyldimethoxysilane; room-temperature and moisture-

curable composition with good workability, weatherability, adhesion, and mech. strength)

IT Adhesives

Sealing compositions

(room-temperature and moisture-curable composition

with good workability, weatherability, adhesion, and mech. strength)

IT Polyoxyalkylenes, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silyl-terminated; room-temperature and moisture-curable composition with good workability, weatherability, adhesion, and mech. strength)

IT 79-10-7DP, Acrylic acid, C12-13 alc. esters, polymers with acrylic monomers 80-62-6DP, Methyl methacrylate, polymers with acrylic monomers 107-05-1DP, Allyl chloride, reaction product with polyoxyalkylenes and hydrosilation with methyldimethoxysilane 141-32-2DP, Butyl acrylate, polymers with acrylic monomers 2530-85-0DP,  $\gamma$ -Methacryloxypropyltrimethoxysilane, polymers with acrylic monomers 4420-74-0DP, 3-Mercaptopropyltrimethoxysilane, hydrosilation with allyl-terminated polyoxyalkylenes and methyldimethoxysilane 9003-54-7P, Acrylonitrile-styrene copolymer 16881-77-9DP, Methyldimethoxysilane, hydrosilation with allyl-terminated polyoxyalkylenes and methyldimethoxysilane 25322-69-4DP, reaction product with allyl chloride and hydrosilation with methyldimethoxysilane 25791-96-2DP, reaction product with allyl chloride and hydrosilation with methyldimethoxysilane 26660-38-8P, Acrylonitrile-glycidyl methacrylate copolymer 115744-05-3P, Methyl methacrylate-butyl acrylate-stearyl methacrylate- $\gamma$ -methacryloxypropyltrimethoxysilane copolymer 115775-35-4P, Methyl methacrylate-butyl acrylate-stearyl methacrylate- $\gamma$ -methacryloxypropyltrimethoxysilane-trimethylolpropane trimethacrylate copolymer 126635-25-4P, Methyl methacrylate-butyl

acrylate-stearyl methacrylate copolymer 219593-14-3P,  
 Bromochloromethane-polypropylene glycol copolymer 329928-86-1P, Methyl  
 methacrylate-butyl acrylate-stearyl methacrylate- $\gamma$ -  
 methacryloxypropyltrimethoxysilane-styrene copolymer  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM  
 (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (room-temperature and moisture-curable composition  
 with good workability, weatherability, adhesion, and mech. strength)

L60 ANSWER 19 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:194742 HCAPLUS

DN 134:242414

TI Highly dispersible coated cosmetic powders and cosmetics containing them

IN Hasegawa, Yukio; Oara, Akira

PA Miyoshi Kasei K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001072527	A	20010321	JP 2000-73261	20000316 <--
	US 6482441	B1	20021119	US 2000-609698	20000706 <--
	FR 2795949	A1	20010112	FR 2000-8928	20000707 <--
	FR 2795949	B1	20031128		
PRAI	JP 1999-194570	A	19990708	<--	
	JP 2000-73261	A	20000316	<--	

AB The cosmetic powders have solid (at ambient temperature) coating layers containing reactive organopolysiloxanes, polyolefins, hydrogenated lecithins (salts), N-acylamino acids (salts), fatty acids (salts), and/or dextrin fatty acid esters and liquid (at ambient temperature) coating layers containing polysiloxanes

having functional groups at one ends, alkylsilanes

having functional groups at one ends, and/or branched fatty acids. Mica M 102 (mica) coated with KF 9002 (trimethylsiloxysilicate) and X 24-9174 (trimethoxy-terminated dimethylpolysiloxane) showed high affinity for oils. A cosmetic foundation containing the coated mica and other coated powders showed good adhesion and gave a smooth feel to the skin.

IC ICM A61K007-00

ICS A61K007-021; A61K007-031; A61K007-032; A61K007-035; A61K007-043; A61K007-42; B01J002-00; B01J019-00; C09C003-12

CC 62-4 (Essential Oils and Cosmetics)

ST cosmetic powder dispersibility polysiloxane polyolefin coating; hydrogenated lecithin coating cosmetic powder dispersibility; fatty acid coating cosmetic powder dispersibility; alkylsilane coating cosmetic powder dispersibility; dextrin fatty ester coating cosmetic powder

IT Mica-group minerals, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(Mica M 102; highly dispersible coated cosmetic powders)

IT Amino acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(N-acyl, salts; highly dispersible coated cosmetic powders)

IT Amino acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(N-acyl; highly dispersible coated cosmetic powders)

IT Silanes  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (alkyl, functional group-terminated; highly dispersible coated cosmetic  
 powders)

IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (branched fatty acids; highly dispersible coated cosmetic powders)

IT Fatty acids, biological studies  
 Polyolefins  
 Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (highly dispersible coated cosmetic powders)

IT Lecithins  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hydrogenated; highly dispersible coated cosmetic powders)

IT Cosmetics  
 (powders; highly dispersible coated cosmetic powders)

IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (salts; highly dispersible coated cosmetic powders)

IT Mica-group minerals, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (titanium; highly dispersible coated cosmetic powders)

IT 1309-37-1, Red iron oxide, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (Bengarashichiho; highly dispersible coated cosmetic powders)

IT 13463-67-7, Titanium oxide (TiO<sub>2</sub>), biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (CR 50; highly dispersible coated cosmetic powders)

IT 12174-53-7, Sericite  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (FSE; highly dispersible coated cosmetic powders)

IT 51274-00-1, Yellow iron oxide  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (Mapico Yellow Lemon; highly dispersible coated cosmetic powders)

IT 3069-42-9, Octadecyltrimethoxysilane  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (TSL 8186; highly dispersible coated cosmetic powders)

IT ~~164849-42-7~~  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (X 24-9174, X 24-9826; highly dispersible coated cosmetic powders)

IT 7631-86-9, P 1500, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (beads; highly dispersible coated cosmetic powders)

IT 544-63-8, Lunac MY 98, biological studies 1314-13-2, Finex 50,  
 biological studies 2724-58-5, Isostearic acid 12227-89-3, BL 100  
 14807-96-6, JA 46R, biological studies 31900-57-9D, Dimethylsilanediol

homopolymer, trimethoxysilyl- and trimethylsilyl-terminated  
 42557-10-8 56275-01-5, KF 9002. 93792-77-9, Rheoparl MKL  
 108192-82-1, Powax S 30 330568-01-9, Cloisonne Orange  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(highly dispersible coated cosmetic powders)

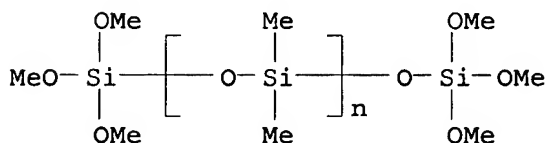
IT 164849-42-7

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(X 24-9174, X 24-9826; highly dispersible coated cosmetic powders)

RN 164849-42-7 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethoxysilyl)- $\omega$ -  
 [(trimethoxysilyl)oxy]- (9CI) (CA INDEX NAME)



No R group

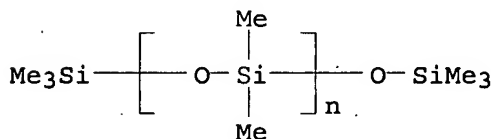
IT 42557-10-8

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(highly dispersible coated cosmetic powders)

RN 42557-10-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -  
 [(trimethylsilyl)oxy]- (CA INDEX NAME)



No R or R' group.

L60 ANSWER 20 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:654484 HCAPLUS

DN 133:239233

TI Thermally conductive silicone rubber compositions with good moldability  
 for heat-dissipating sheets and their manufacture

IN Nakano, Akio; Takei, Hiroshi; Hashimoto, Takeshi; Sakurai, Hirotaka

PA Shin-Etsu Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000256558	A	20000919	JP 1999-64173	19990311 <--
	JP 3543663	B2	20040714		
	TW 444045	B	20010701	TW 1999-88117254	19991006 <--
	US 6306957	B1	20011023	US 2000-521776	20000309 <--
PRAI	JP 1999-64173	A	19990311	<--	

AB The compns. comprise (A)  $\text{R1aSiO}(4-a)/2$  [ $\text{R1} = (\text{substituted}) \text{hydrocarbyl}$ ;  $a = 1.90-2.05$ ] 2-69.9, (B)  $\text{A}(\text{SiMe}_2\text{O})_m[\text{SiMe}(\text{ZSiR}_2\text{bR}_{33}-\text{b})\text{O}]_n\text{SiMe}_2\text{A}$  ( $\text{R}_2 = \text{C1-4}$ )

hydrocarbyl; R3 = C1-4 alkoxy, acyloxy; A = Me, ZSiR2bR33-b; Z = O, C2-10 hydrocarbylene; b = 0-2; m = 3-100; n = 0-50;  $5 \leq m + n \leq 100$  0.1-50, (C) thermally conductive fillers 30-90 vol%, (A + B = 10-70 vol% and A + B + C = 100 vol%), and (D) curing agents.

Dimethylvinylsilyl-terminated polydimethylsiloxane (I; viscosity at 25° 30,000 cs) 20, I (viscosity at 25° 600 cs)

60, trimethylsilyl-terminated methylvinylsiloxane-dimethylsiloxane copolymer (0.7/99.3) 10, trimethylsilyl-terminated polydimethylsiloxane 10,

Me(SiMe2O)30SiMe2OSi(OMe)3 4, AS 30 640, and AL 45 H 160 were heated at 150° to give a base composition showing viscosity (at 25°) 9000

P. The composition was mixed with chloroplatinic acid-vinylsiloxane complex, ethynylcyclohexanol, and HSiMe2O(SiMe2O)13(SiHMeO)2SiMe2H at room temperature and molded into a block showing thermal conductivity 2.5 W/mK.

IC ICM C08L083-04

ICS C08K003-00; C08L083-06

CC 39-9 (Synthetic Elastomers and Natural Rubber)

ST silicone vulcanized rubber thermal conductor moldability; heat releasing sheet hydrogen polysiloxane silicone rubber; alkoxy polydimethylsiloxane silicone rubber viscosity low

IT Hydrosilylation

Thermal conductors

(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)

IT Silicone rubber, preparation

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)

IT Polysiloxanes, properties

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)

IT Polymer blends

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)

IT 31900-57-9DP, Dimethylsilanediol homopolymer, dimethylvinylsilyl-terminated, reaction products with trimethylsilyl-

terminated methylvinylsilanediol-

dimethylsilanediol copolymer and dimethylsilyl-terminated

dimethylsilanediol-methylsilanediol copolymer 155665-02-4DP,

Dimethylsilanediol-methylvinylsilanediol copolymer, trimethylsilyl-

terminated, polymers with dimethylvinylsilyl-terminated

polydimethylsiloxane and dimethylsilyl-terminated

dimethylsilanediol-methylsilanediol copolymer 156118-35-3DP,

Dimethylsilanediol-methylsilanediol copolymer, dimethylsilyl-

terminated, polymers with dimethylvinylsilyl-terminated

polydimethylsiloxane and trimethylsilyl-

terminated dimethylsilanediol-

methylvinylsilanediol copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP

(Properties); TEM (Technical or engineered material use); PREP

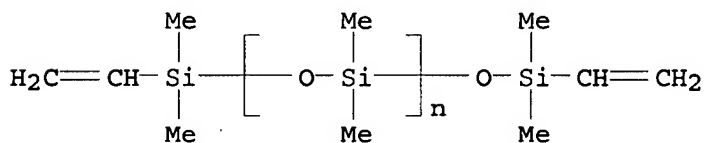
(Preparation); USES (Uses)

(rubber; thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)

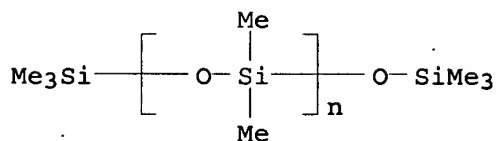
IT 1344-28-1, Aluminum oxide (Al2O3), uses



- RL: MOA (Modifier or additive use); USES (Uses)  
(thermal conductive filler, AL 45H; thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- IT 1314-13-2, Zinc oxide, uses 7429-90-5, Aluminum, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(thermal conductive filler; thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- IT 59942-04-0DP, reaction products with **trimethylsilyl-terminated methylvinylsilanediol-dimethylsilanediol** copolymer and dimethylsilyl-terminated dimethylsilanediol-methylsilanediol copolymer  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- IT 31692-79-2DP,  $\alpha,\omega$ -Dihydroxypolydimethylsiloxane, reaction products with  $\alpha$ -trimethylsilyl-**trimethoxysilyloxy-terminated polydimethylsiloxane** 165688-78-8DP, reaction products with  $\alpha,\omega$ -Dihydroxypolydimethylsiloxane  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- IT 42557-10-8, **Dimethylsiloxane**, trimethylsilyl-terminated 160480-15-9 165688-78-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- IT 59942-04-0DP, reaction products with **trimethylsilyl-terminated methylvinylsilanediol-dimethylsilanediol** copolymer and dimethylsilyl-terminated dimethylsilanediol-methylsilanediol copolymer  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- RN 59942-04-0 HCAPLUS  
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)

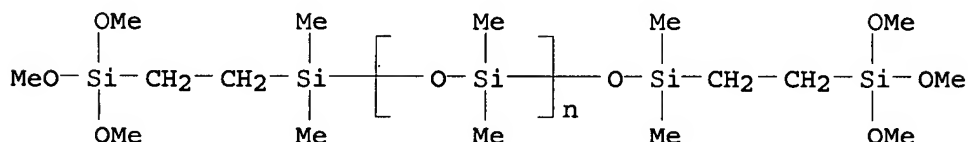


- IT 42557-10-8, **Dimethylsiloxane**, trimethylsilyl-terminated 160480-15-9  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(thermally conductive silicone rubber compns. with good moldability for heat-releasing sheets)
- RN 42557-10-8 HCAPLUS  
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (CA INDEX NAME)



RN 160480-15-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(trimethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]- (CA INDEX NAME)



L60 ANSWER 21 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:645697 HCAPLUS

DN 133:238838

TI **Moisture-curable oxyalkylene polymer containing composition**

IN Kalinowski, Robert Edward; Wolf, Andreas Thomas Franz

PA Dow Corning Corporation, USA

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1035170	A2	20000913	EP 2000-103285	20000218 <--
	EP 1035170	A3	20010718		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6130306	A	20001010	US 1999-266270	19990311 <--
	JP 2000265050	A	20000926	JP 2000-66684	20000310 <--
PRAI	US 1999-266270	A	19990311	<--	

AB A moisture curing composition is disclosed comprising (a) an oxyalkylene polymer having at least one reactive silicon group in each mol. to which a hydroxyl group or a hydrolyzable group is bonded and capable of crosslinking through the formation of a siloxane bond, (b) bis(3-triethoxysilylpropyl)tetrasulfane, and (c) a condensation catalyst. The presence of the bis(3-triethoxysilylpropyl)tetrasulfane in the composition improves the tensile strength and elongation of the cured composition. The present compns. are useful in such applications as sealing materials for construction both in the form of extrudable liquid compns. and as cured preformed configurations such as tapes.

IC ICM C08L071-02

ICS C08G065-32; C08G077-46

CC 37-6 (Plastics Manufacture and Processing)

ST polyoxyalkylene silyl terminated

bistriethoxysilylpropyltetrasulfane curable compn

IT Crosslinking agents  
(bis(3-triethoxysilylpropyl)tetrasulfane; moisture-curable oxyalkylene polymer containing composition)

IT Polysiloxanes, uses  
Polysiloxanes, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(polyoxyalkylene-, silyl-terminated; moisture-curable oxyalkylene polymer containing composition)

IT Polyoxyalkylenes, uses  
Polyoxyalkylenes, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(polysiloxane-, silyl-terminated; moisture-curable oxyalkylene polymer containing composition)

IT 40372-72-3, Bis(3-triethoxysilylpropyl)tetrasulfane  
RL: TEM (Technical or engineered material use); USES (Uses)  
(crosslinking agent; moisture-curable oxyalkylene polymer containing composition)

IT 292823-05-3P  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(moisture-curable oxyalkylene polymer containing composition)

L60 ANSWER 22 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:268557 HCAPLUS

DN 132:294984

TI Manufacture of S-vulcanizable rubber compositions for tires

IN Matan, Thierry Florent Edam; Corvasce, Filomeno Gennaro

PA Goodyear Tire and Rubber Co., USA

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000119444	A	20000425	JP 1999-290716	19991013 <--
	CA 2282963	A1	20000415	CA 1999-2282963	19990916 <--
	MX 9908977	A	20000430	MX 1999-8977	19990930 <--
	BR 9904447	A	20000815	BR 1999-4447	19991005 <--
	EP 995775	A1	20000426	EP 1999-119826	19991007 <--
	EP 995775	B1	20040818		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	ES 2227946	T3	20050401	ES 1999-119826	19991007 <--
	KR 2000029071	A	20000525	KR 1999-44508	19991014 <--
	CN 1251374	A	20000426	CN 1999-121389	19991015 <--
PRAI	US 1998-104377P	P	19981015	<--	

OS MARPAT 132:294984

AB Title compns. are prepared by mech. mixing 100 parts diene rubbers, 30-100 parts blends of 4-90% starch/plasticizer composite having a softening temperature (Ts; ASTM D 1228) of 110-170° and containing starch with Ts of 180-220° and 15-35:65-85 amylose and amylopectin units and 10-96% reinforcing fillers (e.g., SiO<sub>2</sub>, carbon black, Al<sub>2</sub>O<sub>3</sub>, and aluminosilicates), and 5-2,000% (based on 100 parts the composite and filler blends) organic silane disulfides at 150-180°, followed by mixing with organic silane polysulfides and S at 100-130°. Mixing butadiene-isoprene rubber 90, cis-butadiene rubber 10, Mater Bi 1128RR 8,

Zeosil 1165MP 58, Si 266 11.8, and other additives 13.5 parts at 170° for 8 min, then at 160° for 2 min, adding ZnO 2.2, an antioxidant 2.5, accelerators 3.5, S 1.4, and Si 69 2 parts, and mixing at 120° for 2 min gave a composition, which was vulcanized at 150° for 18 min to form a product showing Shore A hardness 62, tensile strength 17 MPa, and impact resilience 70% at 100° or used to form a tire tread with good abrasion and wet-skid resistance.

- IC ICM C08L009-00  
ICS B60C001-00; C08K003-04; C08K003-06; C08K003-22; C08K003-34;  
C08K005-548; C08K009-02; C08L003-14
- CC 39-13 (Synthetic Elastomers and Natural Rubber)
- ST mixing process diene rubber plasticizer starch composite filler; silane disulfide premixing diene rubber compn; polysulfide silane sulfur mixing diene rubber; abrasion wet skid resistance tire diene rubber mixing process
- IT Silanes  
RL: MOA (Modifier or additive use); USES (Uses)  
(alkoxy, carbon black modified with; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Synthetic rubber, uses  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butadiene-isoprene-styrene; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Synthetic rubber, uses  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butadiene-isoprene; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Carboxylic acids, uses  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)  
(dicarboxylic, diesters, starch composites; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Aluminosilicates, uses  
Carbon black, uses  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)  
(filler; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Coupling agents  
Fillers  
Mixing  
Plasticizers  
(multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT ABS rubber  
Isoprene rubber, uses  
Natural rubber, uses  
Nitrile rubber, uses  
Styrene-butadiene rubber, uses  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process);

- USES (Uses)  
(multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Butadiene rubber, uses  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(of cis-1,4-configuration; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Disulfides  
Polysulfides  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)  
(organic silanol-; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT Tires  
(treads; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT 9003-56-9  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(abs rubber, multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT 9003-17-2  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butadiene rubber, of cis-1,4-configuration; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT 2031-67-6 2550-02-9, Propyltriethoxysilane 2943-75-1, Octyltriethoxysilane 18166-37-5, Hexyltriethoxysilane  
RL: MOA (Modifier or additive use); USES (Uses)  
(carbon black modified with; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT 9005-25-8, Starch, properties  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)  
(composites; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT 1344-28-1, Alumina, uses 7631-86-9, Silica, uses  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)  
(filler; multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)
- IT 9003-31-0  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(isoprene rubber, multistep mixing process of diene rubbers with starch/plasticizer composites and fillers and silane sulfides for tires)

- IT 7704-34-9, Sulfur, uses  
RL: CAT (Catalyst use); PEP (Physical, engineering or chemical process);  
PROC (Process); USES (Uses)  
(multistep mixing process of diene rubbers with starch/plasticizer  
composites and fillers and silane sulfides for tires)
- IT 35112-74-4, 3,3'-Bis(trimethoxysilylpropyl)disulfide  
40372-72-3; Si 69 40550-17-2, Bis(3-  
trimethoxysilylpropyl)trisulfide 41453-78-5,  
Bis(3-trimethoxysilylpropyl)tetrasulfide 56706-10-6, Si 266  
56706-11-7, Bis(3-triethoxysilylpropyl)trisulfide  
58392-98-6 63501-59-7 63501-64-4  
170573-33-8 170573-35-0 170573-37-2  
170573-38-3 170573-39-4 170573-40-7  
170573-42-9 170573-46-3 170573-47-4 17057  
3-48-5 170573-49-6 170573-50-9  
170573-51-0 170573-52-1 174177-80-1, Mater Bi 1128RR  
182814-38-6 182814-43-3 182814-45-5  
182814-53-5 182814-55-7, 2,2'-Bis(triethoxysilyl-2-  
methylethyl)disulfide 182814-57-9 182814-58-0  
194299-47-3 264622-86-8 264622-87-9  
264907-23-5 264907-24-6 264907-25-7  
264907-26-8  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical  
process); PROC (Process); USES (Uses)  
(multistep mixing process of diene rubbers with starch/  
plasticizer composites and fillers and silane sulfides for  
tires)
- IT 9003-18-3  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in  
formulation); TEM (Technical or engineered material use); PROC (Process);  
USES (Uses)  
(nitrile rubber, multistep mixing process of diene rubbers with  
starch/plasticizer composites and fillers and silane sulfides for  
tires)
- IT 9003-56-9, ABS copolymer 25102-52-7, Butadiene-isoprene copolymer  
26602-62-0, Butadiene-isoprene-styrene copolymer  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in  
formulation); TEM (Technical or engineered material use); PROC (Process);  
USES (Uses)  
(rubber; multistep mixing process of diene rubbers with  
starch/plasticizer composites and fillers and silane sulfides for  
tires)
- IT 9004-35-7, Cellulose acetate 25067-34-9, Ethylene-vinyl alcohol  
copolymer  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical  
process); PROC (Process); USES (Uses)  
(starch composites; multistep mixing process of diene rubbers with  
starch/plasticizer composites and fillers and silane sulfides for  
tires)
- IT 9003-55-8  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in  
formulation); TEM (Technical or engineered material use); PROC (Process);  
USES (Uses)  
(styrene-butadiene rubber, multistep mixing process of diene rubbers  
with starch/plasticizer composites and fillers and silane sulfides for  
tires)
- IT 35112-74-4, 3,3'-Bis(trimethoxysilylpropyl)disulfide  
40372-72-3, Si 69 40550-17-2, Bis(3-  
trimethoxysilylpropyl)trisulfide 41453-78-5,  
Bis(3-trimethoxysilylpropyl)tetrasulfide 56706-10-6, Si 266

56706-11-7, Bis(3-triethoxysilylpropyl)trisulfide

58392-98-6 63501-59-7 63501-64-4

170573-33-8 170573-35-0 170573-37-2

170573-38-3 170573-39-4 170573-40-7

170573-42-9 170573-46-3 170573-47-4

170573-48-5 170573-49-6 170573-50-9

170573-51-0 170573-52-1 182814-38-6

182814-43-3 182814-45-5 182814-53-5

182814-55-7, 2,2'-Bis(triethoxysilyl-2-methylethyl)disulfide

182814-57-9 182814-58-0 194299-47-3

264622-86-8 264622-87-9 264907-23-5

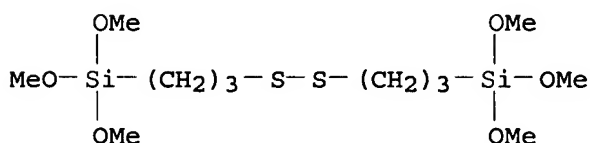
264907-24-6 264907-25-7 264907-26-8

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(multistep mixing process of diene rubbers with starch/  
plasticizer composites and fillers and silane sulfides for  
tires)

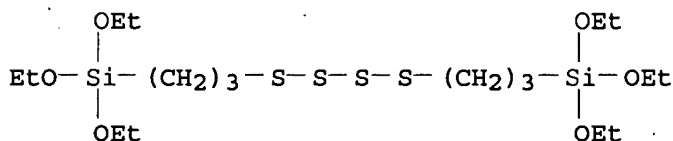
RN 35112-74-4 HCAPLUS

CN 2,13-Dioxa-7,8-dithia-3,12-disilatetradecane, 3,3,12,12-tetramethoxy-  
(9CI) (CA INDEX NAME)



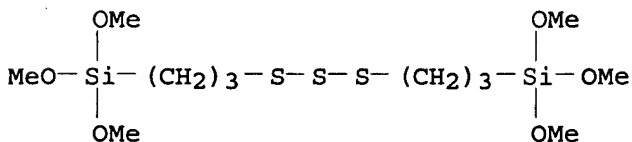
RN 40372-72-3 HCAPLUS

CN 3,16-Dioxa-8,9,10,11-tetrathia-4,15-disilaoctadecane, 4,4,15,15-  
tetraethoxy- (CA INDEX NAME)



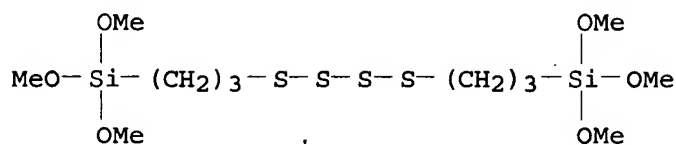
RN 40550-17-2 HCAPLUS

CN 2,14-Dioxa-7,8,9-trithia-3,13-disilapentadecane, 3,3,13,13-tetramethoxy-  
(9CI) (CA INDEX NAME)



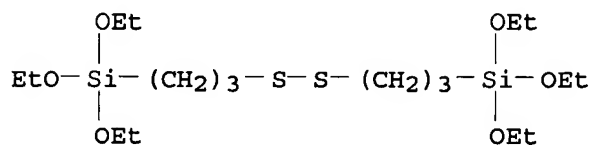
RN 41453-78-5 HCAPLUS

CN 2,15-Dioxa-7,8,9,10-tetrathia-3,14-disilahexadecane, 3,3,14,14-  
tetramethoxy- (CA INDEX NAME)



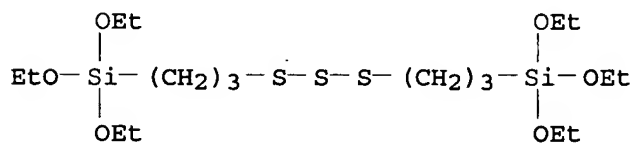
RN 56706-10-6 HCAPLUS

CN 3,14-Dioxa-8,9-dithia-4,13-disilahexadecane, 4,4,13,13-tetraethoxy- (CA INDEX NAME)



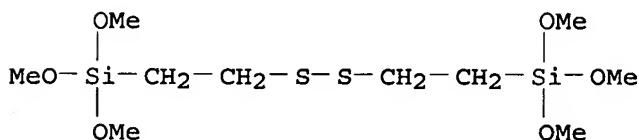
RN 56706-11-7 HCAPLUS

CN 3,15-Dioxa-8,9,10-trithia-4,14-disilaheptadecane, 4,4,14,14-tetraethoxy- (9CI) (CA INDEX NAME)



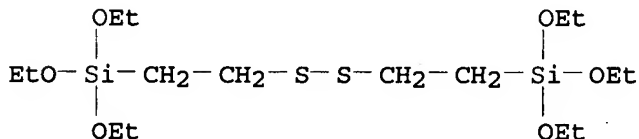
RN 58392-98-6 HCAPLUS

CN 2,11-Dioxa-6,7-dithia-3,10-disiladodecane, 3,3,10,10-tetramethoxy- (CA INDEX NAME)



RN 63501-59-7 HCAPLUS

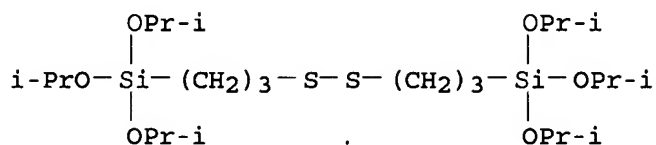
CN 3,12-Dioxa-7,8-dithia-4,11-disilatetradecane, 4,4,11,11-tetraethoxy- (9CI) (CA INDEX NAME)



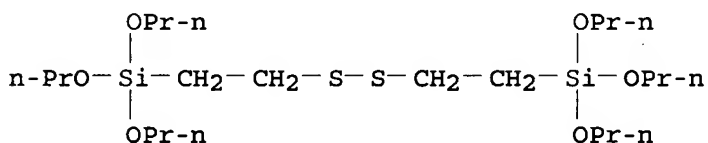
RN 63501-64-4 HCAPLUS

CN 3,14-Dioxa-8,9-dithia-4,13-disilahexadecane, 2,15-dimethyl-4,4,13,13-tetrakis(1-methylethoxy)- (9CI) (CA INDEX NAME)



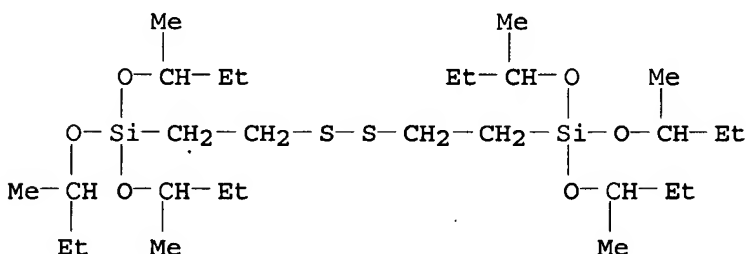


RN 170573-33-8 HCAPLUS

CN 4,13-Dioxa-8,9-dithia-5,12-disilahexadecane, 5,5,12,12-tetrapropoxy- (9CI)  
(CA INDEX NAME)

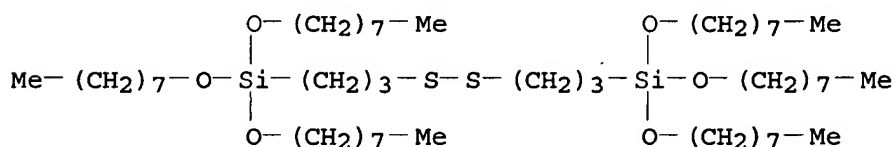
RN 170573-35-0 HCAPLUS

CN 4,13-Dioxa-8,9-dithia-5,12-disilahexadecane, 3,14-dimethyl-5,5,12,12-tetrakis(1-methylpropoxy)- (9CI) (CA INDEX NAME)



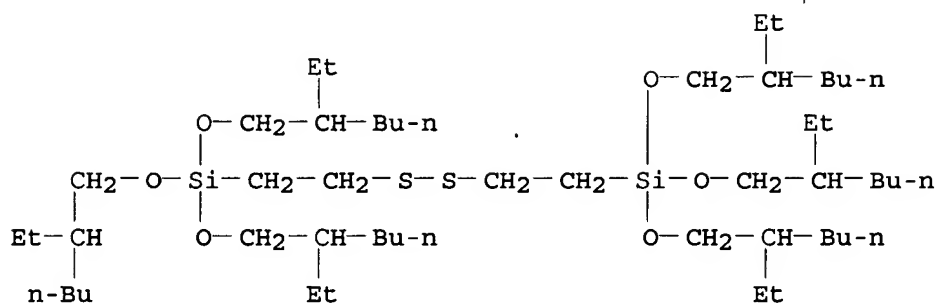
RN 170573-37-2 HCAPLUS

CN 9,20-Dioxa-14,15-dithia-10,19-disilaoctacosane, 10,10,19,19-tetrakis(octyloxy)- (9CI) (CA INDEX NAME)

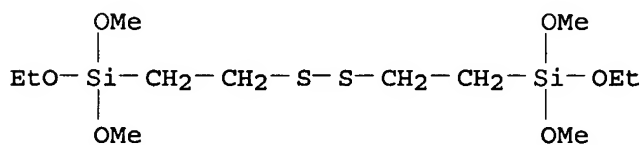


RN 170573-38-3 HCAPLUS

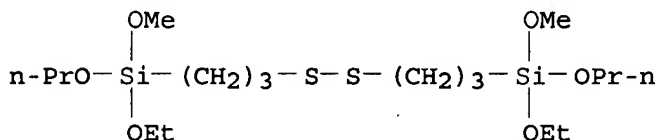
CN 7,16-Dioxa-11,12-dithia-8,15-disiladocosane, 5,18-diethyl-8,8,15,15-tetrakis[(2-ethylhexyl)oxy]- (9CI) (CA INDEX NAME)



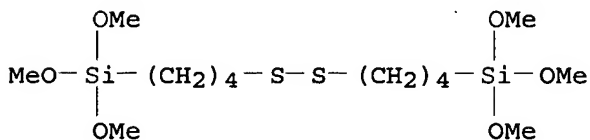
RN 170573-39-4 HCAPLUS

CN 3,12-Dioxa-7,8-dithia-4,11-disilatetradecane, 4,4,11,11-tetramethoxy-  
(9CI) (CA INDEX NAME)

RN 170573-40-7 HCAPLUS

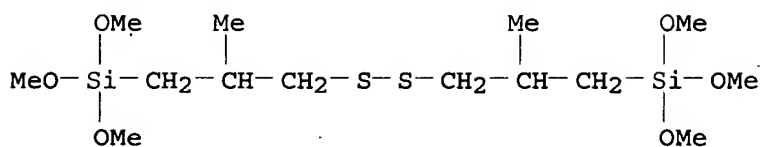
CN 4,15-Dioxa-9,10-dithia-5,14-disilaooctadecane, 5,14-diethoxy-5,14-dimethoxy-  
(9CI) (CA INDEX NAME)

RN 170573-42-9 HCAPLUS

CN 2,15-Dioxa-8,9-dithia-3,14-disilahexadecane, 3,3,14,14-tetramethoxy- (9CI)  
(CA INDEX NAME)

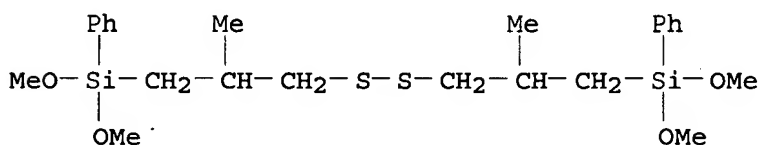
RN 170573-46-3 HCAPLUS

CN 2,13-Dioxa-7,8-dithia-3,12-disilatetradecane, 3,3,12,12-tetramethoxy-5,10-dimethyl- (9CI) (CA INDEX NAME)



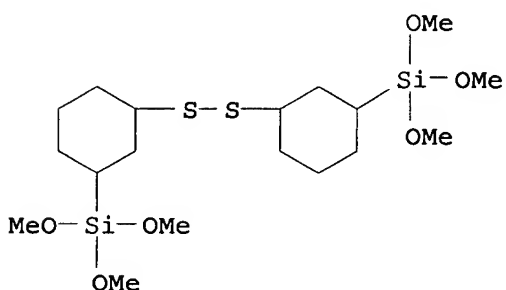
RN 170573-47-4 HCAPLUS

CN 2,13-Dioxa-7,8-dithia-3,12-disilatetradecane, 3,12-dimethoxy-5,10-dimethyl-3,12-diphenyl- (9CI) (CA INDEX NAME)



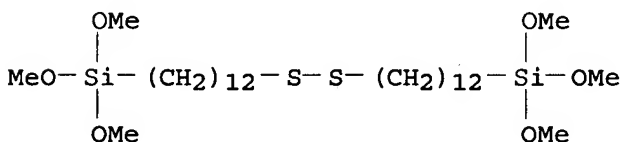
RN 170573-48-5 HCAPLUS

CN Silane, (dithiodi-3,1-cyclohexanediyl)bis(trimethoxy- (9CI) (CA INDEX NAME)



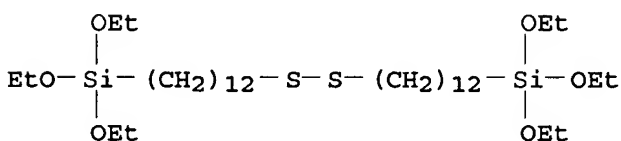
RN 170573-49-6 HCAPLUS

CN 2,31-Dioxa-16,17-dithia-3,30-disiladotriacontane, 3,3,30,30-tetramethoxy- (9CI) (CA INDEX NAME)



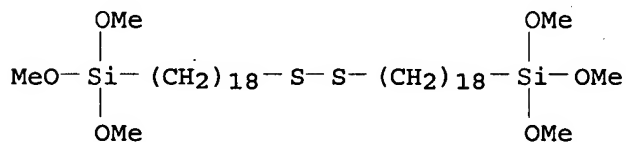
RN 170573-50-9 HCAPLUS

CN 3,32-Dioxa-17,18-dithia-4,31-disilatetratetriacontane, 4,4,31,31-tetraethoxy- (9CI) (CA INDEX NAME)



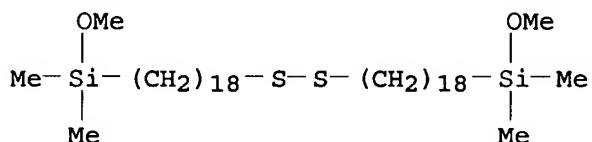
RN 170573-51-0 HCAPLUS

CN 2,43-Dioxa-22,23-dithia-3,42-disilatetratetracontane, 3,3,42,42-tetramethoxy- (9CI) (CA INDEX NAME)



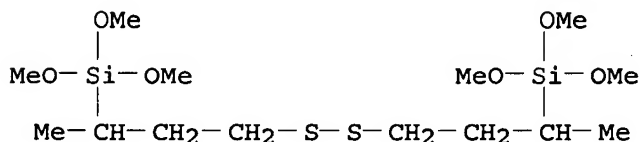
RN 170573-52-1 HCAPLUS

CN 2,43-Dioxa-22,23-dithia-3,42-disilatetratetracontane, 3,3,42,42-tetramethyl- (9CI) (CA INDEX NAME)



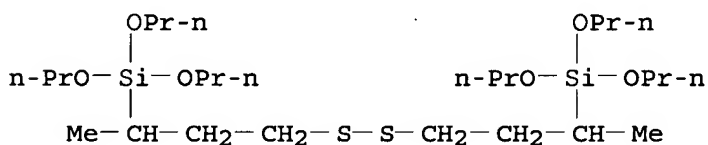
RN 182814-38-6 HCAPLUS

CN 2,13-Dioxa-7,8-dithia-3,12-disilatetradecane, 3,3,12,12-tetramethoxy-4,11-dimethyl- (9CI) (CA INDEX NAME)



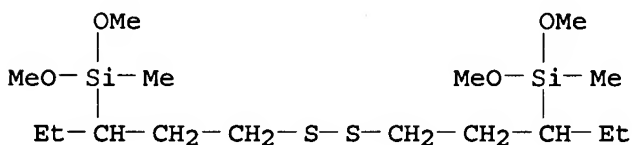
RN 182814-43-3 HCAPLUS

CN 4,15-Dioxa-9,10-dithia-5,14-disilaoctadecane, 6,13-dimethyl-5,5,14,14-tetrapropoxy- (9CI) (CA INDEX NAME)



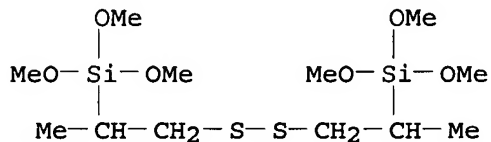
RN 182814-45-5 HCAPLUS

CN 2,13-Dioxa-7,8-dithia-3,12-disilatetradecane, 4,11-diethyl-3,12-dimethoxy-3,12-dimethyl- (9CI) (CA INDEX NAME)



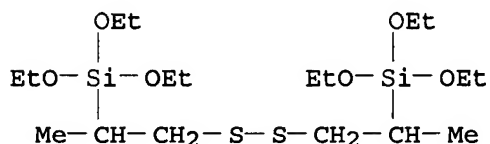
RN 182814-53-5 HCAPLUS

CN 2,11-Dioxa-6,7-dithia-3,10-disiladodecane, 3,3,10,10-tetramethoxy-4,9-dimethyl- (9CI) (CA INDEX NAME)



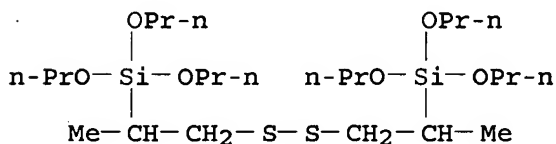
RN 182814-55-7 HCAPLUS

CN 3,12-Dioxa-7,8-dithia-4,11-disilatetradecane, 4,4,11,11-tetraethoxy-5,10-dimethyl- (9CI) (CA INDEX NAME)



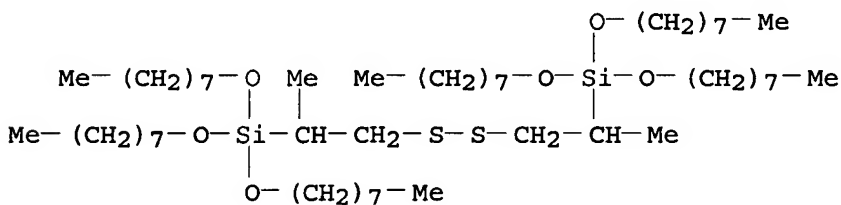
RN 182814-57-9 HCAPLUS

CN 4,13-Dioxa-8,9-dithia-5,12-disilahexadecane, 6,11-dimethyl-5,5,12,12-tetrapropoxy- (9CI) (CA INDEX NAME)



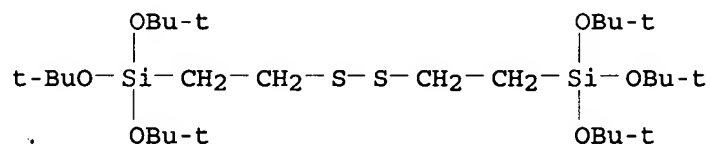
RN 182814-58-0 HCAPLUS

CN 9,18-Dioxa-13,14-dithia-10,17-disilahexacosane, 11,16-dimethyl-10,10,17,17-tetrakis(octyloxy)- (9CI) (CA INDEX NAME)

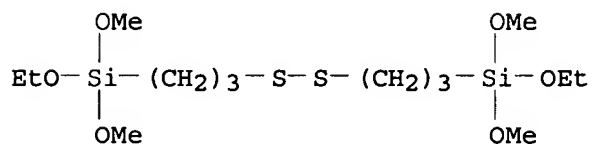


RN 194299-47-3 HCAPLUS

CN 3,12-Dioxa-7,8-dithia-4,11-disilatetradecane, 4,4,11,11-tetrakis(1,1-dimethylethoxy)-2,2,13,13-tetramethyl- (9CI) (CA INDEX NAME)

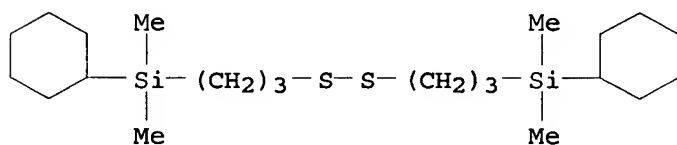


RN 264622-86-8 HCAPLUS

CN 3,14-Dioxa-8,9-dithia-4,13-disilahexadecane, 4,4,13,13-tetramethoxy- (9CI)  
(CA INDEX NAME)

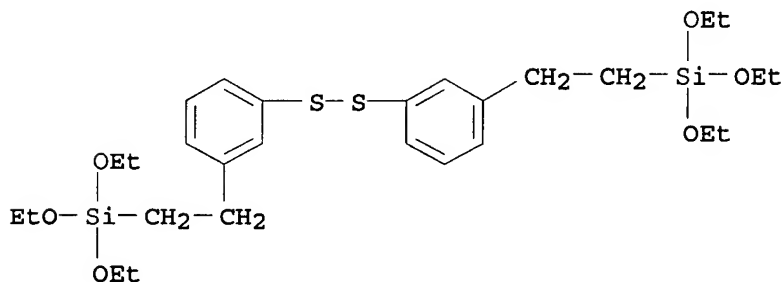
RN 264622-87-9 HCAPLUS

CN Silane, (dithiodi-3,1-propanediyl)bis[cyclohexyldimethyl- (9CI) (CA INDEX NAME)



RN 264907-23-5 HCAPLUS

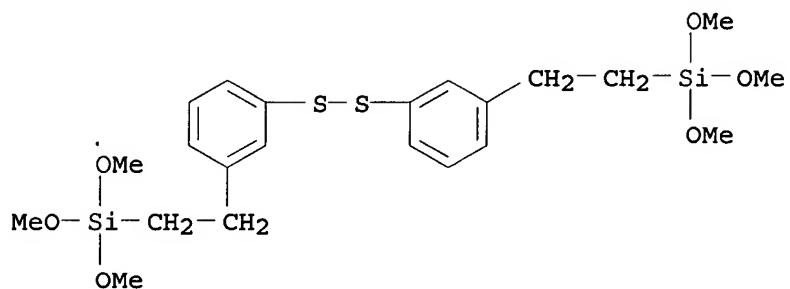
CN Silane, [dithiobis[(methyl-3,1-phenylene)-2,1-ethanediyl]]bis[triethoxy- (9CI) (CA INDEX NAME)



2 ( D1-Me )

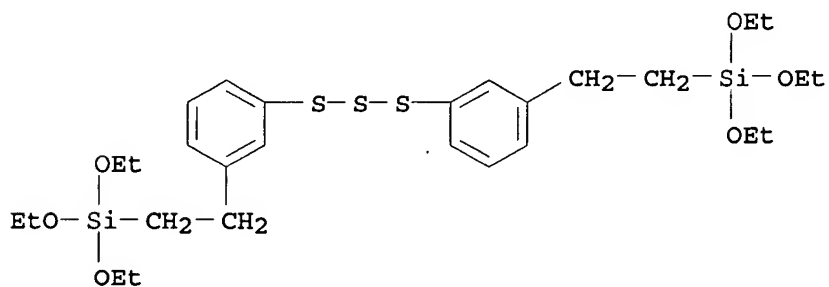
RN 264907-24-6 HCAPLUS

CN Silane, [dithiobis[(methyl-3,1-phenylene)-2,1-ethanediyl]]bis[trimethoxy- (9CI) (CA INDEX NAME)



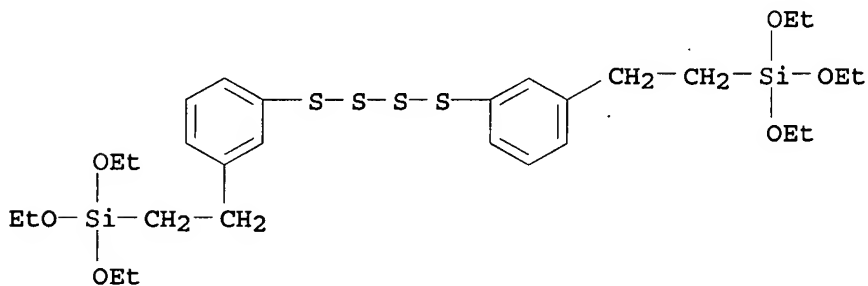
2 ( D1-Me )

RN 264907-25-7 HCAPLUS  
 CN Silane, [trithiobis[(methyl-3,1-phenylene)-2,1-ethanediyl]]bis[triethoxy-  
 (9CI) (CA INDEX NAME)



2 ( D1-Me )

RN 264907-26-8 HCAPLUS  
 CN Silane, [tetraethiobis[(methyl-3,1-phenylene)-2,1-ethanediyl]]bis[triethoxy-  
 (9CI) (CA INDEX NAME)



2 ( D1-Me )

L60 ANSWER 23 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:31359 HCAPLUS

DN 132:79650

TI Thermoplastic silicone elastomers and their preparation

IN Gornowicz, Gerald Alphonse; Lupton, Kevin Edward; Romenesko, David Joseph; Struble, Kim; Zhang, Hongxi

PA Dow Corning Corp., USA

SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 837,835, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6013715	A	20000111	US 1998-34089	19980303 <--
	CA 2322196	A1	19990910	CA 1998-2322196	19980406 <--
	WO 9945072	A1	19990910	WO 1998-US6915	19980406 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CB, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9868891	A	19990920	AU 1998-68891	19980406 <--
	BR 9815700	A	20001024	BR 1998-15700	19980406 <--
	EP 1060217	A1	20001220	EP 1998-914571	19980406 <--
	EP 1060217	B1	20060712		
	R: BE, DE, FR, GB, IT, NL, PT				
	JP 2002505366	T	20020219	JP 2000-534610	19980406 <--
	TW 542849	B	20030721	TW 1998-87106169	19980422 <--
PRAI	US 1997-837835	B2	19970422	<--	
	US 1998-34089	A	19980303	<--	
	WO 1998-US6915	W	19980406	<--	

AB The title thermoplastic elastomer is made by (1) mixing (A) a thermoplastic resin selected from polyolefin and a poly(butylene terephthalate), (B) a diorganopolysiloxane having a **plasticity**  $\geq 30$  and having an average  $\geq 2$  alkenyl radicals/mol., (C) an organohydrido Si compound crosslinker having an average  $\geq 2$  Si-H groups/mol., (D) optionally, a reinforcing filler, and (E) a hydrosilation catalyst; and (2) dynamically curing the diorganopolysiloxane (B), where the amount of (B) used is such that  $\geq 1$  property selected from tensile strength or elongation is at least 25% greater than the resp. property for a corresponding simple blend where the diorganopolysiloxane is not cured and the thermoplastic elastomer has elongation  $\geq 25\%$ . A blend of polydimethylsiloxane 30, polydimethylsiloxane/Pt complex, SiH crosslinker, and a silicone rubber (based on vinyl siloxane)/SiO<sub>2</sub> mix, and Dowlex 2035 polyethylene was dynamically cured to give a thermoplastic elastomer having tensile strength 9.78 MPa, and elongation 704%.

IC ICM C08K003-00

INCL 524492000

CC 39-9 (Synthetic Elastomers and Natural Rubber)

Section cross-reference(s): 37

ST interpenetrating network polyolefin polysiloxane; polybutylene terephthalate polysiloxane interpenetrating network; thermoplastic silicone elastomer manuf; blended thermoplastic silicone dynamically cured; mech property thermoplastic elastomer

IT Vulcanization

(dynamic; thermoplastic silicone elastomers dynamically cured for



- improved mech. property)
- IT Polyolefin rubber  
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(ethylene-octene; Engage; thermoplastic silicone elastomers dynamically cured for improved mech. property)
- IT Polymer blends  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)  
(polyolefin or PBT/silicone elastomers; thermoplastic silicone elastomers dynamically cured for improved mech. property)
- IT Fluoropolymers, properties  
Polyesters, properties  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)
- IT Thermoplastic rubber  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)
- IT Silicone rubber, properties  
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)
- IT Interpenetrating polymer networks  
(thermoplastic silicone elastomers dynamically cured for improved mech. property and)
- IT 26403-67-8, Trimethylsilyl-terminated poly(methylsilanediol) 156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer, trimethylsilyl-terminated  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)  
(crosslinker; thermoplastic silicone elastomers dynamically cured for improved mech. property)
- IT 9002-84-0, PTFE 9002-88-4, Polyethylene 9003-07-0, Polypropylene 24968-12-5, Poly(oxy-1,4-butanediylloxycarbonyl-1,4-phenylenecarbonyl) 25085-53-4, Escorene 3445 26062-94-2, Polybutylene terephthalate 26221-73-8, Dowlex 2035 31692-79-2 42557-10-8, Trimethylsilyl-terminated polydimethylsiloxane 59942-04-0, Dimethylvinylsilyl-terminated polydimethylsiloxane 155665-02-4D, Dimethylsilanediol-methylvinylsilanediol copolymer, dimethylvinyl-terminated 158220-12-3D, Dimethylsilanediol-methylvinylsilanediol-methylsilanetriol-phenylsilanetriol copolymer, trimethylsilyl-terminated  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 24 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:576989 HCAPLUS

DN 131:201144

TI Thermoplastic silicone elastomers dynamically cured for improved property  
IN Gornowicz, Gerald A.; Lupton, Kevin E.; Romenesko, David J.; Struble, Kim; Zhang, Hongxi

PA Dow Corning Corp., USA

SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9945072	A1	19990910	WO 1998-US6915	19980406 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 6013715	A	20000111	US 1998-34089	19980303 <--
	CA 2322196	A1	19990910	CA 1998-2322196	19980406 <--
	AU 9868891	A	19990920	AU 1998-68891	19980406 <--
	BR 9815700	A	20001024	BR 1998-15700	19980406 <--
	EP 1060217	A1	20001220	EP 1998-914571	19980406 <--
	EP 1060217	B1	20060712		
	R: BE, DE, FR, GB, IT, NL, PT				
	JP 2002505366	T	20020219	JP 2000-534610	19980406 <--
PRAI	US 1998-34089	A	19980303	<--	
	US 1997-837835	B2	19970422	<--	
	WO 1998-US6915	W	19980406	<--	
AB	The title polymer is made by mixing (A) a thermoplastic resin selected from a polyolefin and a poly(butylene terephthalate), (B) a diorganopolysiloxane having a <b>plasticity</b> of at least 30 and having an average of at least 2 alkenyl radicals in its mol., (C) an organohydrido Si compound which contains an average of at least 2 Si-bonded H groups in its mol., (D) optionally, a reinforcing filler and (E) a hydrosilation catalyst; and dynamically curing (B), where the amount of the diorganopolysiloxane (B) used is such that $\geq 1$ property of the thermoplastic elastomer selected from tensile strength or elongation is $\geq 25\%$ than the resp. property for a corresponding simple blend where the diorganopolysiloxane is not cured. A blend of trimethylsilyl-terminated polydimethylsiloxane 30, 50/50 hydroxysilyl-terminated polydimethylsiloxane/cerium hydrate 1, SiH crosslinker 1, and a silicone rubber (based on vinyl siloxane)/SiO <sub>2</sub> mix 100, and polyethylene 30 parts was dynamically cured to give a thermoplastic elastomer having durometer (Shore A hardness) 78, tensile strength 4.8 MPa, and elongation 244%.				
IC	ICM C08L083-04				
	ICS C08L067-02; C08L023-02; C08L023-10; C08L023-04				
CC	39-9 (Synthetic Elastomers and Natural Rubber)				
	Section cross-reference(s): 37				
ST	silicone rubber polyethylene blend dynamically cured; polyolefin silicone thermoplastic elastomer; polybutylene terephthalate silicone thermoplastic elastomer; mech property thermoplastic elastomer				
IT	Vulcanization				
	(dynamic; thermoplastic silicone elastomers dynamically cured for improved mech. property)				
IT	Polyolefin rubber				
	RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)				
	(ethylene-octene; thermoplastic silicone elastomers dynamically cured for improved mech. property)				
IT	Polymer blends				
	RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)				

(polyolefin or PBT/silicone elastomers; thermoplastic silicone elastomers dynamically cured for improved mech. property)

IT Fluoropolymers, properties  
Polyesters, properties  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)

IT Thermoplastic rubber  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)

IT Silicone rubber, properties  
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)

IT 26403-67-8, **Trimethylsilyl-terminated poly(methylsilanediol)** 156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer, trimethylsilyl-terminated  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)  
(crosslinker; thermoplastic silicone elastomers dynamically cured for improved mech. property)

IT 9002-84-0, PTFE 9002-88-4, Polyethylene 9003-07-0, Polypropylene 24968-12-5, Poly(oxy-1,4-butanediylloxycarbonyl-1,4-phenylenecarbonyl) 25085-53-4, Escorene 3445 26062-94-2, Polybutylene terephthalate 26221-73-8, Dowlex 2035 31692-79-2, Hydroxy-terminated polydimethylsiloxane 42557-10-8, Trimethylsilyl-terminated polydimethylsiloxane 59942-04-0, Dimethylvinylsilyl-terminated polydimethylsiloxane 155665-02-4D, Dimethylsilanediol-methylvinylsilanediol copolymer, dimethylvinyl-terminated 158220-12-3D, Dimethylsilanediol-methylvinylsilanediol-methylsilanetriol-phenylsilanetriol copolymer, trimethylsilyl-terminated  
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)  
(thermoplastic silicone elastomers dynamically cured for improved mech. property)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 25 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:81330 HCAPLUS

DN 130:140376

TI **Moisture-curable silicone rubber compositions**  
with good adhesion and oil resistance

IN Kawamura, Naoshi; Sato, Kiyoto

PA Dow Corning Toray Silicone Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11029708	A	19990202	JP 1997-154436	19970528 <--
PRAI JP 1997-139346	A	19970514	<--	
AB Title rubber composition, useful for gaskets, comprises (A) 100 parts organopolysiloxane terminated with hydroxyl or				

hydrolyzable groups having viscosity 100-100,000 cSt, (B) 5-300 parts inorg. filler, (C) 0.1-15 parts tertiary amino-containing alkoxysilane, (D) 0.1-20 parts R1aSi(ON:R2)4-a (R1 = monohydrocarbyl; R2 = -C(R3)R4 or cycloalkyl; R3, R4 = monohydrocarbyl; a = 0, 1), and (E) 0-5 parts tin-based catalyst. Thus, 100 parts silanol-terminated dimethylpolysiloxane (viscosity 13,500 cST) was mixed with dimethyldimethoxysilane- and hexamethyldisilazane-treated silica powder 20, 3-(N,N-di-n-butylamino)propyltrimethoxysilane 1.4, tetrakis(methylethylketoxime)silane 3.9, and vinyltris(methylethyl ketoxime)silane 3.9 parts, coated and cured at 20° and 55° RH, showing dry time (touch-free) 3 min, and shear adhesion 20 kgf/cm2 initially and 12 kgf/cm2 after dipping in engine oil for 10 days.

IC ICM C08L083-04  
ICS C08K003-00; C08K005-54; C08K005-57; C09K003-10  
CC 39-9 (Synthetic Elastomers and Natural Rubber)  
ST silicone rubber compn moisture curable oil resistance gasket; silanol terminated polydimethylsiloxane aminoalkylalkoxysilane ketoximesilane rubber  
IT Coupling agents  
(moisture-curable silicone rubber compns. with good adhesion and oil resistance)  
IT Silicone rubber, preparation  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(moisture-curable silicone rubber compns. with good adhesion and oil resistance)  
IT Gaskets  
(moisture-curable silicone rubber compns. with good adhesion and oil resistance for)  
IT 39701-17-2 40835-31-2  
RL: MOA (Modifier or additive use); USES (Uses)  
(moisture-curable silicone rubber compns. with good adhesion and oil resistance)  
IT 220034-24-2P  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(rubber; moisture-curable silicone rubber compns. with good adhesion and oil resistance)  
IT 7631-86-9, Silica, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(treated, filler; moisture-curable silicone rubber compns. with good adhesion and oil resistance)

L60 ANSWER 26 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:12450 HCAPLUS

DN 130:82735

TI One-component, alkoxy-curable, RTV silicone rubber compositions

IN Scheim, Uwe

PA Huls Silicone Gesellschaft Mit Beschränkter Haftung, Germany

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 885933	A1	19981223	EP 1998-110604	19980610 <--
	EP 885933	B1	20000830		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO

DE 19725517	A1	19981224	DE 1997-19725517	19970617 <--
TW 502050	B	20020911	TW 1998-87108399	19980529 <--
US 6020449	A	20000201	US 1998-93772	19980609 <--
AT 195962	T	20000915	AT 1998-110604	19980610 <--
ES 2152727	T3	20010201	ES 1998-110604	19980610 <--
CA 2240311	A1	19981217	CA 1998-2240311	19980611 <--
CA 2240311	C	19981217		
JP 11012472	A	19990119	JP 1998-167037	19980615 <--
CN 1203247	A	19981230	CN 1998-109897	19980616 <--
PRAI DE 1997-19725517	A	19970617	<--	

AB The title rubbers are prepared from transparent, stable pastes containing (thio)amido group-terminated polysiloxanes and (thio)amidoalkyl alkoxysilanes, and alkoxysilanes of specified structure. A paste containing [1-(2-oxopyrrolidin-1-yl)ethyl] diethoxysiloxy group-terminated di-Me polysiloxane (viscosity 63 Pa-s) 450, Me group-terminated di-Me polysiloxane (viscosity 100 mPa-s) 350, N-[1-(triethoxysilyl)ethyl]-2-pyrrolidinone 23, MeSi(OEt)3 24, Ti chelate 36, and pyrogenic SiO2 160 g was cured by atmospheric moisture to give a rubber with skin-forming time 30 min, tensile strength 1.26 MPa, elongation 650%, 100% modulus 0.41 MPa, and Shore A hardness 23.

IC ICM C08L083-08

CC 39-4 (Synthetic Elastomers and Natural Rubber)

ST silicone rubber moisture curable; pyrrolidone siloxane deriv silicone rubber; silane pyrrolidone deriv silicone rubber

IT Silicone rubber, uses  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (RTV; one-component, alkoxy-curable, RTV silicone rubber compns.)

IT Amides, uses  
 Thioamides  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (polysiloxane derivs.; one-component, alkoxy-curable, RTV silicone rubber compns.)

IT 87968-75-0 217496-23-6  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (one-component, alkoxy-curable, RTV silicone rubber compns.)

IT 31900-57-9D, Dimethylsilanediol homopolymer, amidosiloxy group-terminated  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (one-component, alkoxy-curable, RTV silicone rubber compns.)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 27 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:374818 HCAPLUS

DN 126:344400

TI Hydrosilylation-crosslinkable siliconized elastomer compositions and their manufacture and uses

IN Tsujimoto, Motoyoshi; Iwasa, Tsuyoshi

PA Sumitomo Bakelite Company, Limited, Japan; Tsujimoto, Motoyoshi; Iwasa, Tsuyoshi

SO PCT Int. Appl., 30 pp.  
 CODEN: PIXXD2

DT Patent

LA Japanese

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9713806	A1	19970417	WO 1996-JP2928	19961009 <--
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9672268	A	19970430	AU 1996-72268	19961009 <--
	EP 855426	A1	19980729	EP 1996-933598	19961009 <--
	EP 855426	B1	20040428		
	R: DE, FR, GB, IT, SE				
	CN 1203613	A	19981230	CN 1996-198772	19961009 <--
	CN 1113929	B	20030709		
	JP 3201774	B2	20010827	JP 1997-514910	19961009 <--
	CA 2234812	C	20030422	CA 1996-2234812	19961009 <--
	CA 2234812	A1	19970417		
	US 6013729	A	20000111	US 1998-51117	19980401 <--
PRAI	JP 1995-264280	A	19951012	<--	
	WO 1996-JP2928	W	19961009	<--	
AB	A hydraulic elastomer <b>composition</b> obtained through a dynamic heat treatment of a mixture comprising: (a) an ethylene- $\alpha$ -olefin-nonconjugated diene copolymer rubber; (b) a silicone crosslinking agent having at least 2 SiH groups; (c) a hydrosilylation catalyst; and (d) a thermoplastic resin having hydrolyzable silane groups; and another elastomer <b>composition</b> obtained by molding the above-mentioned elastomer <b>composition</b> , bringing it into contact with water preferably in the presence of a silanol catalyst and crosslinking the thermoplastic resin having hydrolyzable silane groups are disclosed. These elastomer compns. are excellent in high-temperature rubber elasticity, low-temperature impact resistance and oil resistance and have good moldability. Thus, a such <b>composition</b> comprised EPDM rubber (Keltan K712) 100, a vinyltrimethoxysilane-grafted hydrogenated block SBR 25, trimethylsilyl-terminated H Me siloxane 7, a supported Pt 1 and Bu <sub>2</sub> Sn dilaurate 0.1 parts.				
IC	ICM C08L023-08				
	ICS C08L023-16; C08L101-10; C08L051-06; C08L083-04; C08K003-24; C08K005-54				
CC	39-10 (Synthetic Elastomers and Natural Rubber) Section cross-reference(s): 37, 38				
ST	<b>moisture curable</b> siliconized EPDM rubber <b>compn</b> ; ethylene olefin nonconjugated diene rubber <b>compn</b> ; hydrosilylation curable ethylene olefin nonconjugated; low temp impact rubber <b>compn</b> ; oil resistance siliconized rubber <b>compn</b> ; hydrolyzable silane rubber <b>compn</b>				
IT	Silanes RL: MOA (Modifier or additive use); USES (Uses) (crosslinking agents; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)				
IT	EPDM rubber RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (ethylene-ethylidenenorbornene-propene, Keltan K 712; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)				
IT	Styrene-butadiene rubber, properties RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (hydrogenated, block, vinyltrimethoxysilane-grafted; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)				

- IT Styrene-butadiene rubber, properties  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(hydrogenated, vinyltrimethoxysilane-grafted Dynaron 1910P; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT Crosslinking  
Hydrosilylation catalysts  
(hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT Ethylene-propylene rubber  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(vinyltrimethoxysilane-grafted JSR-EP07P; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 137-26-8, Tetramethyl thiuram disulfide  
RL: CAT (Catalyst use); USES (Uses)  
(crosslinking accelerator; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 12648-47-4, Platinum chloride 35015-47-5  
RL: CAT (Catalyst use); USES (Uses)  
(hydrosilylation catalysts; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 26403-67-8, Methylsilanediol homopolymer sru, **trimethylsilyl-terminated** 49718-23-2D, Methylsilanediol homopolymer, **trimethylsilyl-terminated** 156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer, **trimethylsilyl-** or lauroxydimethylsilyl-**terminated**  
RL: MOA (Modifier or additive use); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(**hydrosilylation-crosslinkable** siliconized elastomer compns. and manufacture and uses)
- IT 2768-02-7D, graft products with hydrogenated SBR 107257-99-8, Ethylene-vinyltrimethoxysilane graft copolymer 189897-12-9, Linklon HE 700N  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 25038-36-2, Ethylene-ethylidenenorbornene-propylene copolymer  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(rubber; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 106107-54-4  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, hydrogenated, block, vinyltrimethoxysilane-grafted; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, hydrogenated, vinyltrimethoxysilane-grafted Dynaron 1910P; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)
- IT 7704-34-9, Sulfur, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(vulcanization agents; hydrosilylation-crosslinkable siliconized elastomer compns. and manufacture and uses)

L60 ANSWER 28 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:217735 HCAPLUS

DN 126:199939

TI Siloxane-modified polyoxyalkylenes and their manufacture and room temperature-curable compositions for tack-free cured products

IN Kawamoto, Hideyuki; Yamamoto, Akira

PA Shinetsu Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09012709	A	19970114	JP 1995-191248	19950704 <--
PRAI	JP 1995-191248		19950704 <--		

AB The siloxane-modified polyoxyalkylenes are shown as X3-aMeaSiC2H4SiR32(OSiR32)nC2H4R1(OR2)mOR1C2H4(R32SiO)nR32SiC2H4SiMeaX3-a (I; R1 = C1-9 divalent hydrocarbyl; R2 = C1-4 divalent hydrocarbyl; R3 = alkyl, Ph; X = alkoxy, acyloxy; a = 0-2; n = 1-100; m = 20-500). The manufacture giving I comprises hydrosilylation of polyoxyalkylenes having vinyl groups CH2:CHR1(OR2)mOR1CH:CH2 (II; R1-2 and m are same as above) and organopolysiloxanes having reactive silethylene groups H(R32SiO)nR32SiC2H4SiMeaX3-a (III; R3, X, n, and a are same as above) in inert organic solvents in the presence of Pt group metal catalysts. The room temperature-curable compns., useful for sealings and adhesives, contain I and crosslinking catalysts. Thus, 2.12 mol Me2HSiOSiHMe2 and 1.06 mol vinylmonomethyldimethoxysilane were reacted at 80° in PhMe in the presence of chloroplatinic acid (IV) to give III (R3 = Me, X = OMe, a = 1, n = 1) (V). Then 0.11 mol V was reacted with II (R1 = CH2, R2 = CHMeCH2) in PhMe in the presence of IV while refluxing PhMe to give I (m .apprx. 170). A tack-free molding was obtained from 99 parts I and 1 part dibutyltin dilaurate.

IC ICM C08G065-32

ICS C08G077-46; C08G081-00; C08K005-57; C08L071-02; C08L083-12

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 37, 38

ST siloxane polyoxyalkylene prepn room temp curability; vinyl

**terminated polyoxyalkylene siloxane****hydrosilylation; silethylene terminated siloxane****polyoxyalkylene hydrosilylation**

IT Polysiloxanes, preparation

Polysiloxanes, preparation

RL: IMF (Industrial manufacture); PREP (Preparation)

(polyoxyalkylene-; manufacture of siloxane-polyoxyalkylenes and their room temperature-curable compns. for tack-free cured products)

IT Polyoxyalkylenes, preparation

Polyoxyalkylenes, preparation

RL: IMF (Industrial manufacture); PREP (Preparation)

(polysiloxane-; manufacture of siloxane-polyoxyalkylenes and their room temperature-curable compns. for tack-free cured products)

IT 77-58-7, Dibutyltin dilaurate

RL: CAT (Catalyst use); USES (Uses)

(manufacture of siloxane-polyoxyalkylenes and their room temperature-curable compns. for tack-free cured products)

IT 187930-14-9P 187930-15-0P

RL: IMF (Industrial manufacture); PREP (Preparation)

(manufacture of siloxane-polyoxyalkylenes and their room temperature-curable compns. for tack-free cured products)



IT 137407-65-9P 158612-33-0P 158681-14-2P 158681-16-4P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (manufacture of siloxane-polyoxyalkylenes and their room temperature-curable  
 compns. for tack-free cured products)

IT 2768-02-7 3277-26-7 16753-62-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (manufacture of siloxane-polyoxyalkylenes and their room temperature-curable  
 compns. for tack-free cured products)

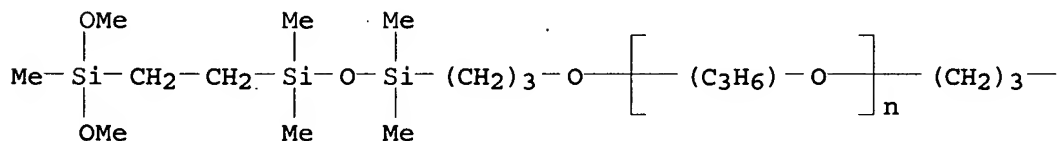
IT 187930-14-9P 187930-15-0P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (manufacture of siloxane-polyoxyalkylenes and their room temperature-curable  
 compns. for tack-free cured products)

RN 187930-14-9 HCAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[3-[3-[2-  
 (dimethoxymethylsilyl)ethyl]-1,1,3,3-tetramethyldisiloxanyl]propyl]-  
 $\omega$ -[3-[3-[2-(dimethoxymethylsilyl)ethyl]-1,1,3,3-  
 tetramethyldisiloxanyl]propoxy]-, homopolymer (9CI) (CA INDEX NAME)

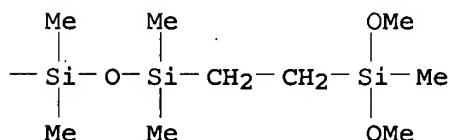
CM 1

CRN 158681-16-4  
 CMF (C3 H6 O)<sub>n</sub> C24 H62 O7 Si6  
 CCI IDS, PMS

PAGE 1-A



PAGE 1-B

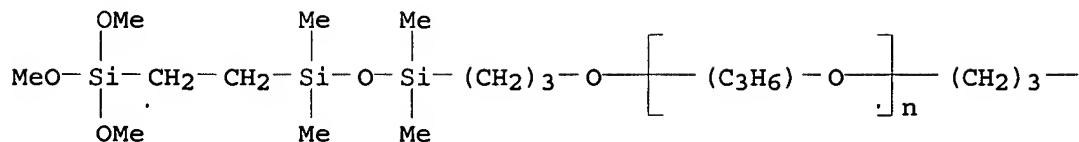


RN 187930-15-0 HCAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[3-[1,1,3,3-tetramethyl-3-[2-  
 (trimethoxysilyl)ethyl]disiloxanyl]propyl]- $\omega$ -[3-[1,1,3,3-tetramethyl-  
 3-[2-(trimethoxysilyl)ethyl]disiloxanyl]propoxy]-, homopolymer (9CI) (CA  
 INDEX NAME)

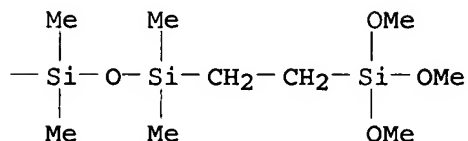
CM 1

CRN 158681-14-2  
 CMF (C3 H6 O)<sub>n</sub> C24 H62 O9 Si6  
 CCI IDS, PMS

PAGE 1-A



PAGE 1-B



IT 158681-14-2P 158681-16-4P

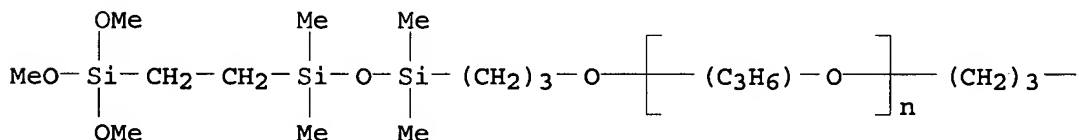
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(manufacture of siloxane-polyoxyalkylenes and their room temperature-curable comps. for tack-free cured products)

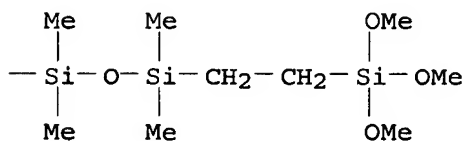
RN 158681-14-2 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[3-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]propyl]- $\omega$ -[3-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]propoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



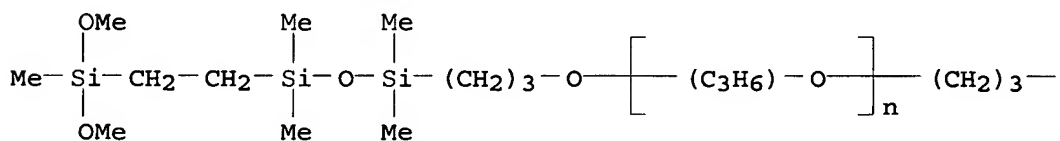
PAGE 1-B



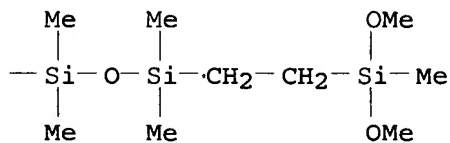
RN 158681-16-4 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[3-[3-[2-(dimethoxymethylsilyl)ethyl]-1,1,3,3-tetramethyldisiloxanyl]propyl]- $\omega$ -[3-[3-[2-(dimethoxymethylsilyl)ethyl]-1,1,3,3-tetramethyldisiloxanyl]propoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L60 ANSWER 29 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:676107 HCAPLUS

DN 125:302808

TI 1-Component alkoxy curing rtv silicone sealant compositions

IN Lucas, Gary Morgan

PA General Electric Company, USA

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 735086	A2	19961002	EP 1996-301876	19960319 <--
	EP 735086	A3	19970806		
	EP 735086	B1	20011010		

R: DE, FR, GE, IT, NL

	US 5519104	A	19960521	US 1995-414895	19950331 <--
PRAI	US 1995-414895	A	19950331	<--	

OS MARPAT 125:302808

AB A room temperature vulcanizing (rtv) alkoxy curing fumed or pyrogenic silica-reinforced ~~alkoxysilane~~-endcapped di-Me silicone composition is disclosed cured by a dual catalyst system comprising either (C<sub>4</sub>H<sub>9</sub>)Sn(O<sub>2</sub>CCH<sub>3</sub>)(O<sub>2</sub>C(CH<sub>2</sub>)<sub>10</sub>CH<sub>3</sub>) or an approx. equimolar mixture of dibutyltin diacetate and dibutyltin dilaurate or mixts. thereof whereby tooling time is increased without deleterious effects upon cured performance properties. The composition also comprised a stabilizing disilazane or polysilazane hydroxy scavenging agent and an epoxysilane adhesion promoter. Extruder mixing procedure for sealant production and mixed catalyst preparation process are also disclosed.

IC ICM C08K005-57

ICS C08L083-04

CC 38-3 (Plastics Fabrication and Uses)

ST siloxane adhesive room temp vulcanizable prodn; butyltin laurate acetate crosslinking catalyst adhesive

IT Scavengers

(disilazane or polysilazane; one-component alkoxy curing rtv silicone sealant compns.)

IT Sealing compositions

(one-component alkoxy curing rtv silicone sealant compns.)

IT Siloxanes and Silicones, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(one-component alkoxy curing rtv silicone sealant compns.)

IT Crosslinking catalysts

(tin compds., one- or two-component; one-component alkoxy curing rtv silicone sealant compns.)

IT Adhesion

(promoters, an epoxysilane; one-component alkoxy curing rtv silicone

sealant compns.)

IT 2530-83-8,  $\gamma$ -Glycidyloxypropyltrimethoxysilane  
RL: MOA (Modifier or additive use); USES (Uses)  
(adhesion promoter; one-component alkoxy curing rtv silicone sealant compns.)

IT 1185-55-3, Methyltrimethoxysilane  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(crosslinker; one-component alkoxy curing rtv silicone sealant compns.)

IT 7631-86-9, Silica, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(filler, fumed or pyrogenic; one-component alkoxy curing rtv silicone sealant compns.)

IT 77-58-7, Dibutyltin dilaurate 1067-33-0, Dibutyltin diacetate  
RL: CAT (Catalyst use); USES (Uses)  
(one-component alkoxy curing rtv silicone sealant compns.)

IT 168322-39-2P, Dibutyltin acetate laurate  
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)  
(one-component alkoxy curing rtv silicone sealant compns.)

IT 26115-70-8, 1,3,5-Tris(trimethoxysilylpropyl)isocyanurate  
RL: MOA (Modifier or additive use); USES (Uses)  
(one-component alkoxy curing rtv silicone sealant compns.)

IT 31900-57-9D, Dimethylsilanediol homopolymer,  $\alpha$ -,  
 $\omega$ -methyldimethoxysilyl- or trimethylsilyl-terminated  
42557-10-8, Dimethylsilanediol homopolymer, sru,  $\alpha$ -,  
 $\omega$ -trimethylsilyl-terminated 156809-29-9,  
Dimethylsilanediol homopolymer, sru,  $\alpha$ -,  $\omega$ -  
methyldimethoxysilyl-terminated  
RL: POF (Polymer in formulation); USES (Uses)  
(one-component alkoxy curing rtv silicone sealant compns.)

IT 2526-62-7, Cyanoethyltrimethoxysilane  
RL: MOA (Modifier or additive use); USES (Uses)  
(processing aid; one-component alkoxy curing rtv silicone sealant compns.)

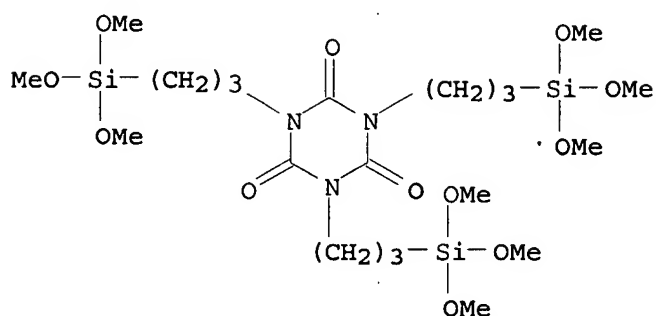
IT 999-97-3, Hexamethyldisilazane  
RL: MOA (Modifier or additive use); USES (Uses)  
(scavenger; one-component alkoxy curing rtv silicone sealant compns.)

IT 556-67-2, Octamethylcyclotetrasiloxane  
RL: NUU (Other use, unclassified); USES (Uses)  
(silica treatment agent; one-component alkoxy curing rtv silicone sealant compns.)

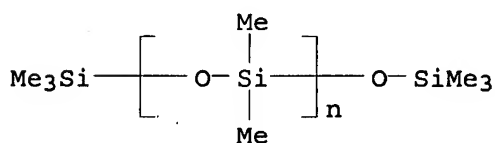
IT 26115-70-8, 1,3,5-Tris(trimethoxysilylpropyl)isocyanurate  
RL: MOA (Modifier or additive use); USES (Uses)  
(one-component alkoxy curing rtv silicone sealant compns.)

RN 26115-70-8 HCAPLUS

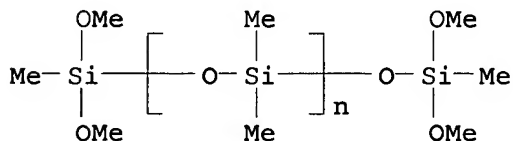
CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (CA INDEX NAME)



IT 42557-10-8, Dimethylsilanediol homopolymer, sru,  $\alpha$ -,  
 $\omega$ -trimethylsilyl-terminated 156809-29-9,  
 Dimethylsilanediol homopolymer, sru,  $\alpha$ -,  $\omega$ -  
 methyltrimethoxysilyl-terminated  
 RL: POF (Polymer in formulation); USES (Uses)  
 (one-component alkoxy curing rtv silicone sealant compns.)  
 RN 42557-10-8 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -  
 [(trimethylsilyl)oxy]- (CA INDEX NAME)



RN 156809-29-9 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(dimethoxymethylsilyl)- $\omega$ -  
 [(dimethoxymethylsilyl)oxy]- (9CI) (CA INDEX NAME)



L60 ANSWER 30 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1996:473083 HCAPLUS  
 DN 125:115540  
 TI Silyl group-containing organic polymers  
 IN Habimana, Jean De La Croi; Leempoel, Patrick  
 PA Dow Corning SA, Belg.  
 SO Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 714925	A2	19960605	EP 1995-308431	19951124 <--
	EP 714925	A3	19961227		

R: BE, DE, FR, GB, IT

CA 2164162 A1 19960602 CA 1995-2164162 19951130 <--  
 JP 08208842 A 19960813 JP 1995-314478 19951201 <--

PRAI GB 1994-24250 A 19941201 &lt;--

AB Polymers are prepared by condensation reaction between (A) the chain extension reaction product of a polyacid chloride, e.g. ClCORC(O)Cl, R = (CH<sub>2</sub>)<sub>n</sub>; n = 2-10, and an oxyalkylene polymer (e.g. a polyoxyalkylene glycol) and (B) an organo-Si compound having Si-bonded groups SiR(NHR<sub>1</sub>)<sub>m</sub>NH<sub>2</sub> (R = any linking group; R<sub>1</sub> = monovalent hydrocarbyl; m = 0-10), e.g. preferably  $\gamma$ -aminopropyltrimethoxysilane or  $\gamma$ -aminopropyltriethoxysilane. Preferred polymers may be used in preparation of **moisture curable** sealants. Thus chain extension of polypropylene glycol (mol. weight 4000) with adipoyl chloride gave an acid chloride terminal polymer (160,000 cSt) which was **endcapped** with  $\gamma$ -**aminopropyltrimethoxysilane**. This polymer was curable under ambient conditions to give a sealant.

IC ICM C08G063-695

ICS C08G063-672; C08G063-78; C08G063-91

CC 35-5 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 42

ST silyl terminal polyoxyalkylene manuf property;  
**aminopropyltrimethoxysilane terminal polyoxyalkylene**  
 manuf; adipoyl chloride chain extended polyoxyalkylene; **moisture curable** sealant hydrolyzable silyl group

IT **Polyoxyalkylenes**, preparation

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (hydrolyzable silylamido **terminal**; **silyl**  
 group-containing polyoxyalkylene for **moisture curable**  
 sealant)

IT Sealing **compositions**

(silyl group-containing polyoxyalkylene for **moisture curable**)

IT 3179-76-8DP,  $\gamma$ -Aminopropylmethyldiethoxysilane, reaction product with glutaryl chloride-extended polyoxyalkylene 13822-56-5DP,  $\gamma$ -Aminopropyltrimethoxysilane, reaction product with adipoyl chloride-extended polyoxyalkylene 179471-43-3DP, reaction product with aminopropylmethyldiethoxysilane 179471-44-4DP, reaction product with aminopropyltrimethoxysilane  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (silyl group-containing polyoxyalkylene for **moisture curable** sealant)

L60 ANSWER 31 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:366124 HCAPLUS

DN 125:89324

TI Single-component RTV silicone sealant compositions with extended tooling times

IN Lucas, Gary M.

PA General Electric Company, USA

SO U.S., 10 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5519104	A	19960521	US 1995-414895	19950331 <--
	CA 2171243	A1	19961001	CA 1996-2171243	19960307 <--

EP 735086 A2 19961002 EP 1996-301876 19960319 <--  
 EP 735086 A3 19970806  
 EP 735086 B1 20011010  
 R: DE, FR, GE, IT, NL  
 JP 08333456 A 19961217 JP 1996-65688 19960322 <--  
 PRAI US 1995-414895 A 19950331 <--  
 OS MARPAT 125:89324  
 AB A room-temperature-vulcanizing silicone composition cures by hydrolytic  
 condensation  
 in the presence of a catalyst system comprising either  
 Bu<sub>2</sub>Sn(OAc)[O<sub>2</sub>C(CH<sub>2</sub>)<sub>10</sub>Me] (I) or an approx. equimolar mixture of Bu<sub>2</sub>Sn(OAc)<sub>2</sub>  
 and Bu<sub>2</sub>Sn dilaurate, whereby tooling time is increased without deleterious  
 effects upon cured performance properties. Good performance was obtained  
 from a composition comprising MeSi(OMe)<sub>2</sub>[OSiMe<sub>2</sub>]nOSiMe(OMe)<sub>2</sub> (viscosity 125,000  
 cP) 66, fumed silica 11, (MeO)<sub>3</sub>SiCH<sub>2</sub>CH<sub>2</sub>CN 0.7, a dimethylsiloxane liquid  
 (viscosity 100 cP) 13, an MDT silanol fluid 5, MeSi(OMe)<sub>3</sub> 1.5,  
 Me<sub>3</sub>SiNHSiMe<sub>3</sub> 2, (γ-glycidoxypropyl)trimethoxysilane 0.25,  
 tris[(trimethoxysilyl)propyl] isocyanurate 0.5, and I 0.28-0.36 part.  
 IC ICM C08G077-08  
 INCL 528018000  
 CC 42-11 (Coatings, Inks, and Related Products)  
 ST dibutyltin acetate laurate catalyst; silicone sealant curing catalyst  
 IT Vulcanization accelerators and agents  
 (dibutyltin acetate laurate; for silicone sealant compns. at room  
 temperature)  
 IT Silazanes  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (hydroxy scavengers; silicone RTV sealant compns. containing organotin  
 curing catalysts and)  
 IT Vulcanization  
 (of silicone sealant compns. containing organotin curing catalysts at room  
 temperature)  
 IT Sealing compositions  
 (silicone RTV sealant compns. containing organotin curing catalysts)  
 IT Rubber, silicone, uses  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts)  
 IT 2530-83-8, (γ-Glycidoxypropyl)trimethoxysilane  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (adhesion promoter; silicone RTV sealant compns. containing organotin  
 curing catalysts and)  
 IT 1185-55-3, Trimethoxymethylsilane  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (crosslinking agent; silicone RTV sealant compns. containing organotin  
 curing catalysts and)  
 IT 7631-86-9, Silica, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (filler; silicone RTV sealant compns. containing organotin curing catalysts  
 and)  
 IT 999-97-3, Hexamethyldisilazane  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (hydroxy scavengers; silicone RTV sealant compns. containing organotin  
 curing catalysts and)  
 IT 42557-10-8  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (plasticizer; silicone RTV sealant compns. containing organotin  
 curing catalysts and)  
 IT 2526-62-7, (2-Cyanoethyl)trimethoxysilane  
 RL: MOA (Modifier or additive use); USES (Uses)

(processing aid; silicone RTV sealant compns. containing organotin curing catalysts and)

IT 168322-39-2P  
 RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts)

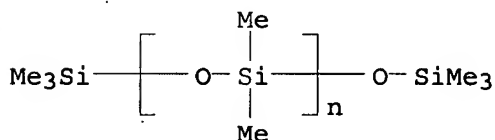
IT 77-58-7, Dibutyltin dilaurate 1067-33-0, Dibutyltin diacetate  
 RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts)

IT 31900-57-9D, Dimethylsilanediol homopolymer, dimethoxymethylsilyl-terminated 156809-29-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts)

IT 26115-70-8, Tris[(trimethoxysilyl)propyl] isocyanurate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts and)

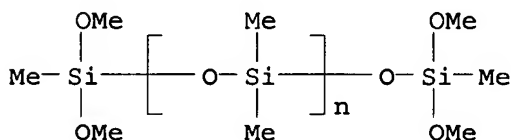
IT 42557-10-8  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (plasticizer; silicone RTV sealant compns. containing organotin curing catalysts and)

RN 42557-10-8 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (CA INDEX NAME)



IT 156809-29-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts)

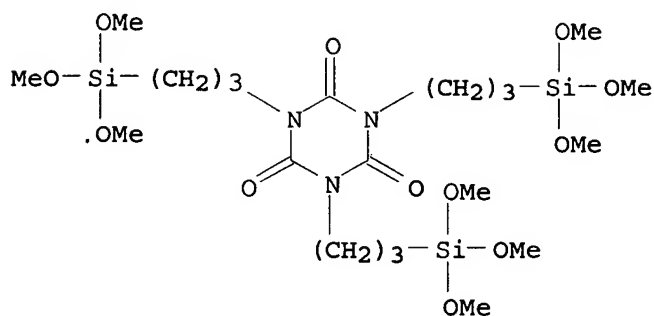
RN 156809-29-9 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(dimethoxymethylsilyl)- $\omega$ -[(dimethoxymethylsilyl)oxy]- (9CI) (CA INDEX NAME)



IT 26115-70-8, Tris[(trimethoxysilyl)propyl] isocyanurate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (silicone RTV sealant compns. containing organotin curing catalysts and)

RN 26115-70-8 HCAPLUS  
 CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (CA INDEX NAME)





L60 ANSWER 32 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:115469 HCAPLUS

DN 124:292050

TI Room-temperature-curable **compositions** containing hydrolyzable silyl-terminated polyoxyalkylenes

IN Toda, Tomomoto; Murayama, Yukihiro

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07310006	A	19951128	JP 1994-105517	19940519 <--
	JP 3105129	B2	20001030		
PRAI	JP 1994-105517		19940519	<--	

AB The title **comps.**, showing good adhesion and useful for sealants, elastic adhesives, etc., contain hydrolyzable silyl-terminated polyoxyalkylenes, silanes (R<sub>10</sub>)<sub>n</sub>SiR<sub>23</sub>-n(CH<sub>2</sub>)<sub>3</sub>NH(CH<sub>2</sub>)<sub>p</sub>NH(CH<sub>2</sub>)<sub>3</sub>SiR<sub>23</sub>-n(OR<sub>1</sub>)<sub>n</sub> and/or H<sub>2</sub>N(CH<sub>2</sub>)<sub>q</sub>N[(CH<sub>2</sub>)<sub>3</sub>Si(OR<sub>3</sub>)mR<sub>43</sub>-m]<sub>2</sub>, and silanes HN[(CH<sub>2</sub>)<sub>3</sub>Si(OR<sub>5</sub>)lR<sub>63</sub>-l]<sub>2</sub> and/or R<sub>7</sub>NH(CH<sub>2</sub>)<sub>3</sub>Si(OR<sub>8</sub>)kR<sub>93</sub>-k (R<sub>1</sub>-6, R<sub>8</sub>-9 = Me, Et; R<sub>7</sub> = H, CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>; n, m, l, k = 1-3; p, q = 2-6). A **composition** containing Excestar 2410, XS 951, KBM 602, dioctyl phthalate, H<sub>2</sub>C:CHSi(OMe)<sub>3</sub>, dibutyltin dilaurate, CaCO<sub>3</sub>, and TiO<sub>2</sub> showed good adhesion to Al and PVC-coated steel.

IC ICM C08L071-02

ICS C08K005-54

CC 39-15 (Synthetic Elastomers and Natural Rubber)

Section cross-reference(s): 38

ST **moisture curable** silyl polyoxyalkylene silane; sealant  
**moisture curable** silane polyoxyalkylene; adhesive  
**moisture curable** silane polyoxyalkylene; amino alkoxy  
silane **moisture curable** polyoxyalkylene; adhesion  
**moisture curable** silane polyoxyalkylene; coupler silane  
silyl polyoxyalkylene; crosslinking silyl polyoxyalkylene silane

IT Adhesion

(**moisture-curable** silyl-terminated polyoxyalkylenes containing alkoxy silanes for elastic sealants with good)

IT Sealing **compositions**

(**moisture-curable** silyl-terminated polyoxyalkylenes containing alkoxy silanes for elastic sealants with good adhesion)

IT Adhesives

(**moisture-curable** silyl-terminated polyoxyalkylenes containing alkoxy silanes for good adhesion)

IT Crosslinking  
(of **moisture-curable** silyl-terminated polyoxyalkylenes containing alkoxy silanes as elastic sealants and adhesives)

IT Coupling agents  
(silanes; in **moisture-curable** silyl-terminated polyoxyalkylenes for adhesives and sealants with good adhesion)

IT Silanes  
RL: MOA (Modifier or additive use); USES (Uses)  
(alkoxy, in **moisture-curable** silyl-terminated polyoxyalkylenes for adhesives and sealants with good adhesion)

IT Silanes  
RL: MOA (Modifier or additive use); USES (Uses)  
(amino, in **moisture-curable** silyl-terminated polyoxyalkylenes for adhesives and sealants with good adhesion)

IT Polyoxyalkylenes, properties  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(silyl-terminated, in **moisture-curable** adhesives and sealants containing alkoxy silanes for good adhesion)

IT 170006-60-7, Excestar 2410  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(in **moisture-curable** compns. containing alkoxy silanes for adhesives and sealants with good adhesion)

IT 2768-02-7, Vinyltrimethoxysilane 3069-29-2, KBM 602  
68845-16-9, XS 951 82985-35-1, Bis[3-(trimethoxysilyl)propyl]amine  
RL: MOA (Modifier or additive use); USES (Uses)  
(in **moisture-curable** silyl-terminated polyoxyalkylenes for adhesives and sealants with good adhesion)

IT 7429-90-5, Aluminum, miscellaneous 12597-69-2, Steel, miscellaneous  
RL: MSC (Miscellaneous)  
(**moisture-curable** silyl-terminated polyoxyalkylenes containing alkoxy silanes as elastic sealants and adhesives with adhesion to)

L60 ANSWER 33 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:812777 HCAPLUS

DN 123:201694

TI Precured silicone emulsion for rubber

IN Liles, Donald Taylor; Shephard, Nick Evan

PA Dow Corning Corp., USA

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

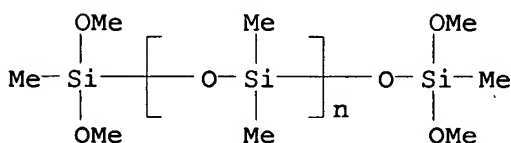
LA English

FAN.CNT 5

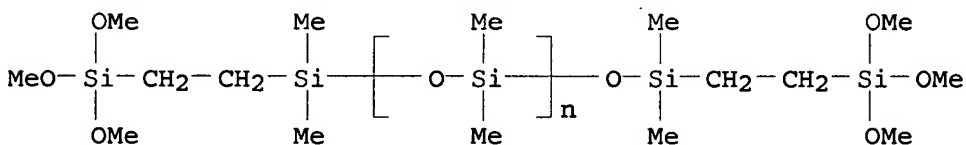
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 640645	A2	19950301	EP 1994-306262	19940824 <--
	EP 640645	A3	19951227		
	EP 640645	B1	19990303		
	R: DE, FR, GB, IT				
	US 5438095	A	19950801	US 1993-113029	19930830 <--
	CA 2128800	A1	19950301	CA 1994-2128800	19940726 <--
	JP 07150045	A	19950613	JP 1994-199539	19940824 <--
PRAI	US 1993-113029	A	19930830	<--	
AB	An aqueous silicone emulsion which yields an elastomer upon removal of the water comprises a polydiorganosiloxane having <b>alkoxysilyl</b> end-blocking groups with $\geq 2$ alkoxy groups attached to the				

Si atom, a Ti catalyst, and optionally a filler. Thus, an emulsion contained trimethoxysilylethylene end-blocked polydimethylsiloxane, vinyl end-blocked polydimethylsiloxane, Na lauryl sulfate, diisopropylbis(ethylacetoacetate)titanium, and H<sub>2</sub>O.

IC ICM C08J003-03  
ICS C08L083-04  
CC 39-4 (Synthetic Elastomers and Natural Rubber)  
ST silicone rubber vulcanization catalyst; methoxysilylethylene endblocked polydimethylsiloxane rubber  
IT Vulcanization accelerators and agents  
(curing of silicone rubber with titanium catalysts)  
IT Rubber, silicone, preparation  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(curing of silicone rubber with titanium catalysts)  
IT 5593-70-4, Tetrabutyl titanate 24328-39-0  
RL: CAT (Catalyst use); USES (Uses)  
(curing of silicone rubber with titanium catalysts)  
IT 31900-57-9P, Dimethylsilanediol homopolymer 156809-29-9P  
160480-15-9P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(rubber; curing of silicone rubber with titanium catalysts)  
IT 156809-29-9P 160480-15-9P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(rubber; curing of silicone rubber with titanium catalysts)  
RN 156809-29-9 HCAPLUS  
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(dimethoxymethylsilyl)- $\omega$ -  
[(dimethoxymethylsilyl)oxy]- (9CI) (CA INDEX NAME)



RN 160480-15-9 HCAPLUS  
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[2-(trimethoxysilyl)ethyl]silyl]- $\omega$ -[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]- (CA INDEX NAME)

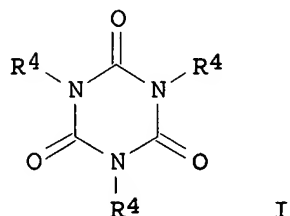


L60 ANSWER 34 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 1995:424977 HCAPLUS  
DN 123:146914  
TI Curable siloxane FIPG (formed in-place gasket) compositions with improved adhesion to greased surface  
IN Nagaoka, Hisayuki  
PA Toshiba Silicone, Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07003164	A	19950106	JP 1993-148802	19930621 <--
PRAI	JP 1993-148802		19930621	<--	
GI					



AB The compns., giving elastomeric cured products, comprise (A) 100 parts polyorganosiloxanes having units  $R_1aSiR_2bO[4-(a+b)]/2$  [ $R_1$  = alkenyl;  $R_2$  = aliphatic unsatd. link-free (un)substituted monovalent hydrocarbyl;  $a = 1-3$ ;  $b = 0-2$ ;  $a + b = 1-3$ ] and  $\geq 2$   $R_1/mol$ , (B) polyorganohydrogensiloxanes having units  $R_3cSiHdO[4-(c+d)]/2$  [ $R_3$  = (un)substituted monovalent hydrocarbyl;  $c = 0-2$ ;  $d = 1-3$ ;  $c + d = 1-3$ ] and  $\geq 3$   $SiH/mol$  with the  $SiH$  content being  $0.25-8.0/R_1$ , (C)  $0.1-500$  ppm (as Pt; based on the polyorganosiloxanes) Pt and/or Pt compds., (D)  $0.1-10$  parts isocyanurates I [ $R_4$  = same or different H, monovalent (un)substituted hydrocarbyl,  $(CH_2)_nSi(OR_5)aR_63-a$ ;  $\geq 1$   $R_4 = (CH_2)_nSi(OR_5)aR_63-a$ ;  $R_5 = C1-6$  alkyl, alkoxyalkyl;  $R_6 = C1-3$  alkyl;  $n = 1-5$ ] and  $\geq 3$   $OR_5$ , and (E)  $1-30$  parts organic solvents. Thus,  $100$  parts dimethylvinylsilyl-terminated di-Me siloxane was blended with  $14$  parts  $Me_2SiCl_2$ -treated aerosol  $SiO_2$  and  $0.04$  part  $1\%$  chloroplatinic acid, kneaded, further blended with I [ $R_4 = (EtO)_3Si(CH_2)_3$ ]  $1.5$ ,  $Me_3Si$ -terminated Me hydrogen siloxane-di-Me siloxane copolymer  $2$ , and  $BuOAc$   $6$  parts, and applied on a greased Al plate and a greased steel plate, then the plates were bonded and treated at  $120^\circ$  for  $1$  h to give a test piece showing shear adhesion  $15.2$   $kg/cm^2$  and cohesive failure  $100\%$ .

IC ICM C08L083-07

ICS C08K005-3477; C08L083-05; C09J183-05; C09J183-07; C09K003-10

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39, 55, 56

ST ethoxypropyl isocyanurate silicone rubber gasket

IT Gaskets

(curable siloxane compns. containing alkoxysilyl-containing isocyanurates for formed in-place gaskets)

IT Rubber, silicone, uses

Siloxanes and Silicones, uses

RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

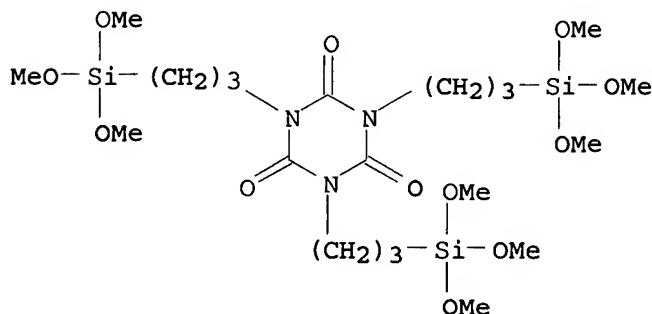
(curable siloxane compns. containing alkoxysilyl-containing isocyanurates for formed in-place gaskets)

IT 7429-90-5, Aluminum, uses 12597-69-2, Steel, uses

RL: DEV (Device component use); USES (Uses)

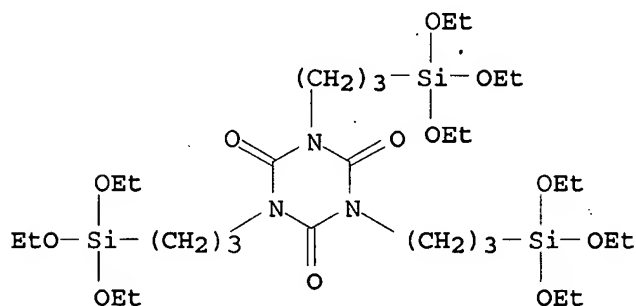
(curable siloxane compns. containing alkoxysilyl-containing isocyanurates for

- formed in-place gaskets)
- IT 556-67-2, Octamethylcyclotetrasiloxane 26115-70-8,  
Tris[(trimethoxysilyl)propyl] isocyanurate 26903-80-0,  
(Trimethoxysilyl)propyl diallyl isocyanurate 82194-46-5  
161249-61-2 161249-63-4 161249-64-5  
RL: DEV (Device component use); MOA (Modifier or additive use); USES  
(Uses)  
(curable siloxane compns. containing alkoxysilyl-containing isocyanurates  
for  
formed in-place gaskets)
- IT 108-10-1, Methyl isobutyl ketone 123-86-4, Butyl acetate 1330-20-7,  
Xylene, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(curable siloxane compns. containing alkoxysilyl-containing isocyanurates  
for  
formed in-place gaskets)
- IT 156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer,  
**trimethylsilyl-terminated**  
RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or  
reagent); USES (Uses)  
(hydrosilylation by, for rubber; curable siloxane compns.  
containing alkoxysilyl-containing isocyanurates for formed in-place gaskets)
- IT 31900-57-9D, Dimethylsilanediol homopolymer, dimethylvinylsilyl-terminated  
59942-04-0  
RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or  
reagent); USES (Uses)  
(hydrosilylation of, for rubber; curable siloxane compns. containing  
alkoxysilyl-containing isocyanurates for formed in-place gaskets)
- IT 157578-37-5P  
RL: DEV (Device component use); IMF (Industrial manufacture); PREP  
(Preparation); USES (Uses)  
(rubber; curable siloxane compns. containing alkoxysilyl-containing  
isocyanurates for formed in-place gaskets)
- IT 26115-70-8, Tris[(trimethoxysilyl)propyl] isocyanurate.  
82194-46-5 161249-61-2 161249-63-4  
161249-64-5  
RL: DEV (Device component use); MOA (Modifier or additive use); USES  
(Uses)  
(curable siloxane compns. containing alkoxysilyl-containing isocyanurates  
for  
formed in-place gaskets)
- RN 26115-70-8 HCAPLUS  
CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-  
(trimethoxysilyl)propyl]- (CA INDEX NAME)



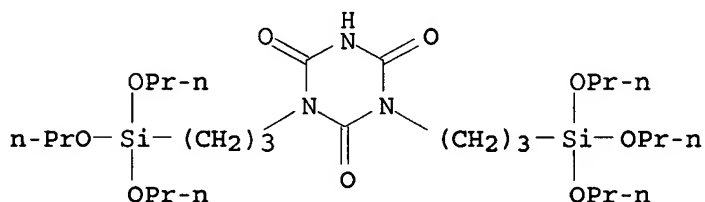
RN 82194-46-5 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(triethoxysilyl)propyl]- (CA INDEX NAME)



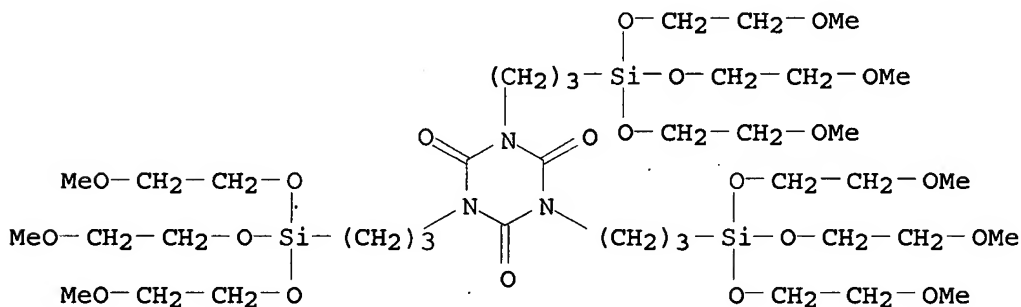
RN 161249-61-2 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-bis[3-(tripropoxysilyl)propyl]-(9CI) (CA INDEX NAME)



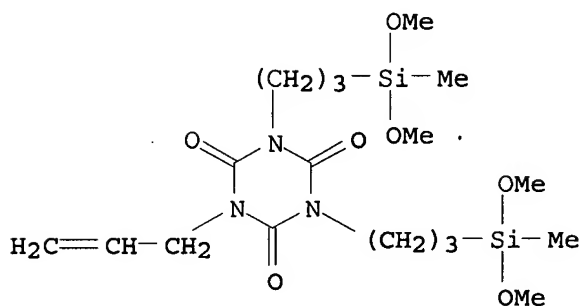
RN 161249-63-4 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-[tris(2-methoxyethoxy)silyl]propyl]-(9CI) (CA INDEX NAME)



RN 161249-64-5 HCAPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-bis[3-(dimethoxymethylsilyl)propyl]-5-(2-propenyl)-(9CI) (CA INDEX NAME)

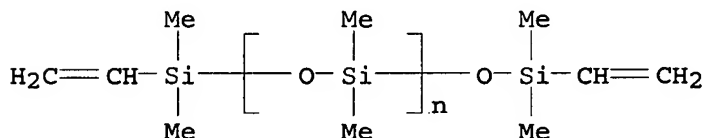


IT 59942-04-0

RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(hydrosilylation of, for rubber; curable siloxane compns. containing alkoxydimethylsilyl-containing isocyanurates for formed in-place gaskets)

RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)

IT 157578-37-5P

RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(rubber; curable siloxane compns. containing alkoxydimethylsilyl-containing isocyanurates for formed in-place gaskets)

RN 157578-37-5 HCAPLUS

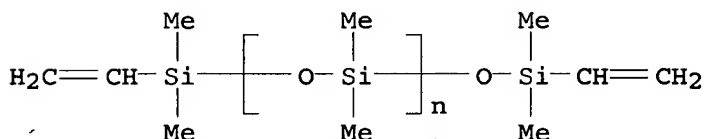
CN Silanediol, 1,1-dimethyl-, polymer with  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and 1-methylsilanediol (CA INDEX NAME)

CM 1

CRN 59942-04-0

CMF (C2 H6 O Si)n C8 H18 O Si2

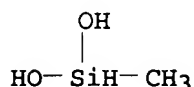
CCI PMS



CM 2

CRN 43641-90-3

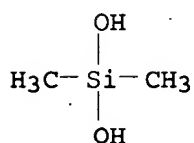
CMF C H6 O2 Si



CM 3

CRN 1066-42-8

CMF C2 H8 O2 Si



L60 ANSWER 35 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:383154 HCAPLUS

DN 123:58517

TI Organosiloxane compositions for silicone rubber

IN Sato, Shinichi; Matsuda, Takashi; Fukuda, Kenichi; Fujiki, Hironao; Michimata, Kaoru

PA Shinetsu Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06329916	A	19941129	JP 1993-121497	19930524 <--
	JP 3020382	B2	20000315		
PRAI	JP 1993-121497		19930524 <--		

GI For diagram(s), see printed CA Issue.

AB The compns. giving cured products with good adhesion comprise (A) organopolysiloxanes containing  $\geq 2$  monovalent hydrocarbons (which contain aliphatic unsatd. bonds) bonded to Si, (B) organohydrogensiloxanes containing  $\geq 2$  Si-H, (C) cyclosiloxanes I [R1 = monovalent hydrocarbon containing aliphatic unsatd. link; R2, R3, R6 = (un)substituted monovalent hydrocarbyl; R4, R5 = (un)substituted bivalent hydrocarbon not containing aliphatic unsatd. link; Rf = monovalent perfluoroalkyl, monovalent perfluoroalkyl ether group;  $m \geq 1$ ;  $n \geq 1$ ;  $m + n = (3-6)$ ], and (D) Pt-group metal catalysts. Thus, 100 g vinyltrimethylsilyl-terminated di-Me siloxane (containing 15 phr hexamethyldisilazane-treated aerosol SiO<sub>2</sub>) was blended with 1.3 g Me<sub>3</sub>SiO(SiMeHO)<sub>8</sub>SiMe<sub>3</sub>, 0.5 g a cyclosiloxane II, 0.2 g carbon black, a Pt catalyst, and an ethynylcyclohexanol-PhMe mixture, pressed, and treated at 150° for 1 h to give a sheet showing JIS-A hardness 28, elongation 340%, tensile strength 30 kg/cm<sup>2</sup>, and good adhesion to glass, Al, Fe, and epoxy resin.

IC ICM C08L083-07

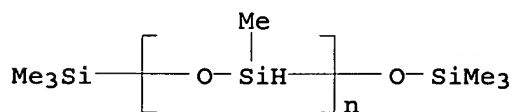
ICS C08L083-05; C08L083-08

CC 39-9 (Synthetic Elastomers and Natural Rubber)

ST silicone rubber adhesion fluoro cyclosiloxane



- IT Rubber, silicone, preparation  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT Epoxy resins, miscellaneous  
 Glass, oxide  
 RL: MSC (Miscellaneous)  
 (substrate; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 162920-44-7  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (adhesion promoters; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 26403-67-8 49718-23-2D, Methylsilanediol homopolymer, trimethylsilyl-terminated  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hydrosilylation by; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 31900-57-9D, Dimethylsilanediol homopolymer, dimethylvinylsilyl-terminated 59942-04-0 84668-17-7 156395-51-6D, Methyl(3,3,3-trifluoropropyl)silanediol homopolymer, dimethylvinylsilyl-terminated  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hydrosilylation of; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 156118-35-3P, Dimethylsilanediol-methylsilanediol copolymer 163917-75-7P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (rubber; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 162920-45-8 163917-74-6  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 7429-90-5, Aluminum, miscellaneous 7439-89-6, Iron, miscellaneous  
 RL: MSC (Miscellaneous)  
 (substrate; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- IT 26403-67-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hydrosilylation by; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)
- RN 26403-67-8 HCAPLUS  
 CN Poly[oxy(methylsilylene)],  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (CA INDEX NAME)

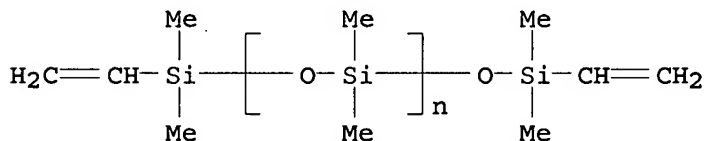


IT 59942-04-0 84668-17-7

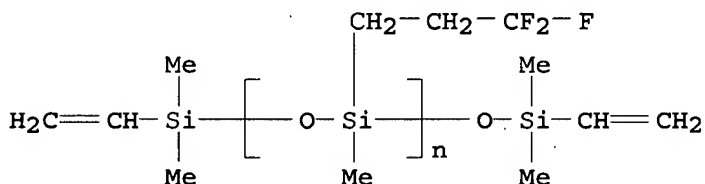
RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrosilylation of; silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)

RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)

RN 84668-17-7 HCAPLUS

CN Poly[oxy[methyl(3,3,3-trifluoropropyl)silylene]],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

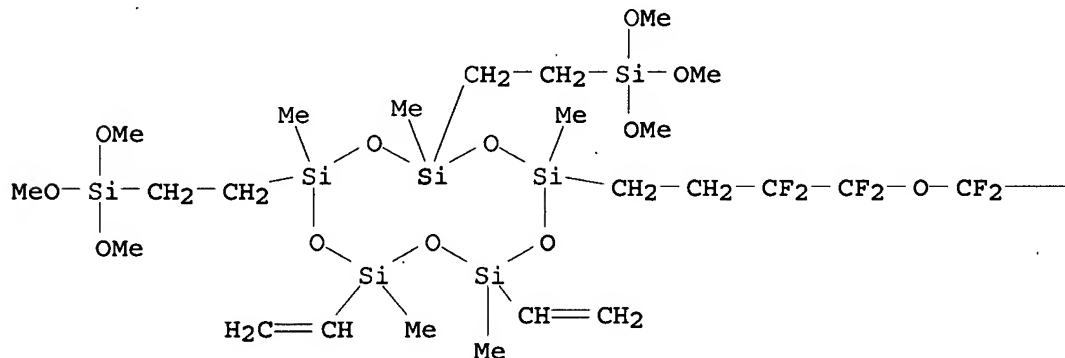
IT 163917-74-6

RL: MOA (Modifier or additive use); USES (Uses)

(silicone rubber containing perfluoroalkyl-containing cyclosiloxanes with good adhesion)

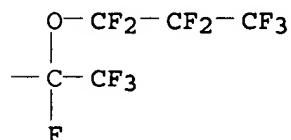
RN 163917-74-6 HCAPLUS

CN Cyclopentasiloxane, 2,4-diethenyl-2,4,6,8,10-pentamethyl-6-[3,3,4,4-tetrafluoro-4-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]butyl]-8,10-bis[2-(trimethoxysilyl)ethyl]- (9CI) (CA INDEX NAME)



PAGE 1-A

PAGE 1-B



L60 ANSWER 36 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:276780 HCAPLUS

DN 122:69731

TI Insulation layer of metal-based hybrid wiring board

IN Tomaru, Kazuhiko; Kato, Hideto; Shimamoto, Noboru; Okinoshima, Hiroshige

PA Shinetsu Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06104542	A	19940415	JP 1992-273849	19920917 <--
PRAI	JP 1992-273849		19920917 <--		
AB	Polyimides containing siloxanes and/or polyimide resins containing <b>alkoxysilyls</b> on the <b>ends</b> of their mol. chains are used as the insulation layer of metal based-hybrid wiring board. This metal-based hybrid wiring board has advantages in working under high temperature, high voltage and high humidity.				
IC	ICM H05K001-05				
	ICS B32B015-08; C08G073-10				
CC	76-3 (Electric Phenomena)				
	Section cross-reference(s): 36				
ST	metal based hybrid wiring board; insulation layer polyimide siloxane wiring board; polyimide resin alkoxysilyl insulation layer				
IT	Resins				
	RL: DEV (Device component use); USES (Uses) (insulation layer of metal-based hybrid wiring board)				
IT	Polyimides, uses				
	RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (insulation layer of metal-based hybrid wiring board)				
IT	Electric circuits				
	(hybrid, insulation layer of metal-based hybrid wiring board)				
IT	1344-28-1, Alumina, uses 7429-90-5, Aluminum, uses 7440-50-8, Copper, uses				
	RL: DEV (Device component use); USES (Uses) (insulation layer of metal-based hybrid wiring board)				
IT	160055-81-2P 160055-82-3P				
	RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (insulation layer of metal-based hybrid wiring board)				
IT	24304-00-5, Aluminum nitride 151709-83-0 160055-83-4				
	RL: DEV (Device component use); TEM (Technical or engineered material				

use); USES (Uses)

(insulation layer of metal-based hybrid wiring board)

IT 112-49-2, Triethylene glycol dimethyl ether

RL: NUU (Other use, unclassified); USES (Uses)

(insulation layer of metal-based hybrid wiring board)

IT 160055-81-2P 160055-82-3P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP

(Preparation); USES (Uses)

(insulation layer of metal-based hybrid wiring board)

RN 160055-81-2 HCAPLUS

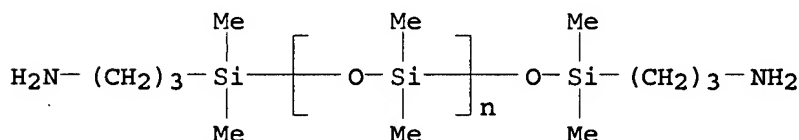
CN 1,3-Isobenzofurandione, 5,5'-carbonylbis-, polymer with  
 $\alpha$ -[(3-aminopropyl)dimethylsilyl]- $\omega$ -[[[(3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and  
 5,5'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[1,3-isobenzofurandione] (9CI) (CA INDEX NAME)

CM 1

CRN 97917-34-5

$$\text{CMF} \quad (\text{C}_2 \text{ H}_6 \text{ O Si})_n \text{ C}_{10} \text{ H}_{28} \text{ N}_2 \text{ O Si}_2$$

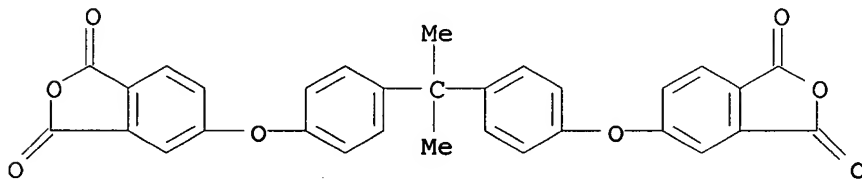
CCI PMS



CM . 2

CRN 38103-06-9

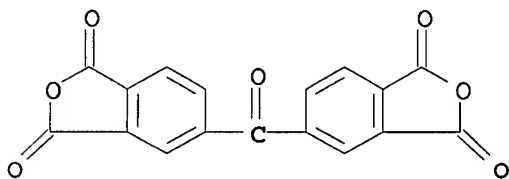
CMF C31 H20 O8



CM 3

CRN 2421-28-5

CMF C17 H6 O7



RN 160055-82-3 HCAPLUS

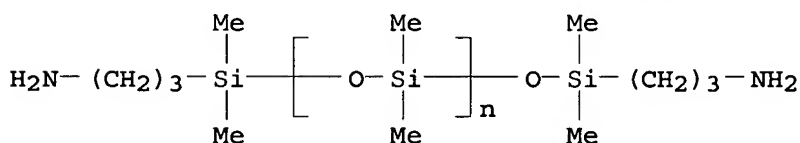
CN 1,3-Isobenzofurandione, 5,5'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis-, polymer with  $\alpha$ -[(3-aminopropyl)dimethylsilyl]- $\omega$ -[[[(3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)]] and 5,5'-sulfonylbis[1,3-isobenzofurandione] (9CI) (CA INDEX NAME)

CM 1'

CRN 97917-34-5

CMF (C2 H6 O Si)<sub>n</sub> C10 H28 N2 O Si2

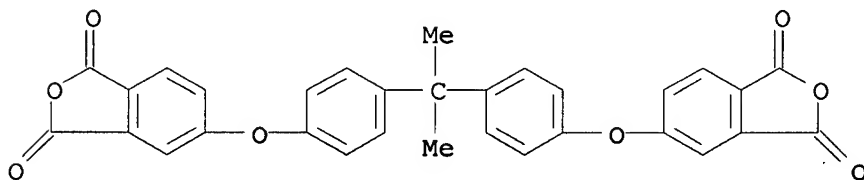
CCI PMS



CM 2

CRN 38103-06-9

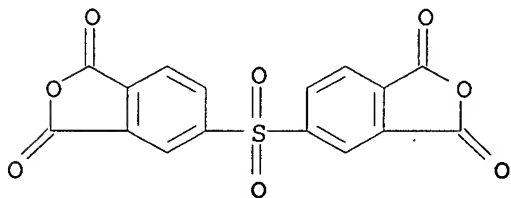
CMF C31 H20 O8



CM 3

CRN 2540-99-0

CMF C16 H6 O8 S



IT 151709-83-0 160055-83-4

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

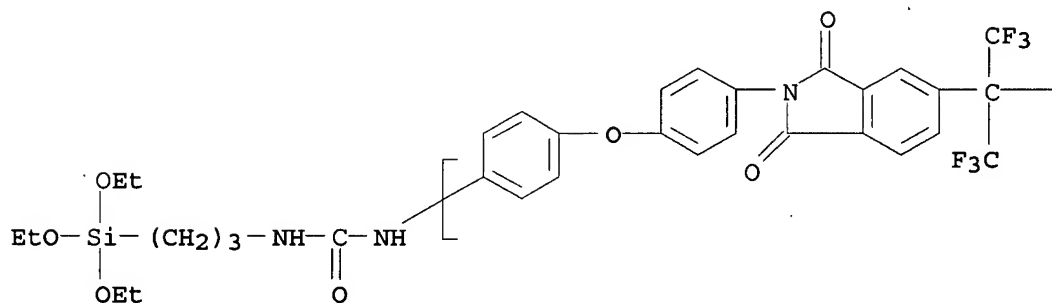
(insulation layer of metal-based hybrid wiring board)

RN 151709-83-0 HCAPLUS

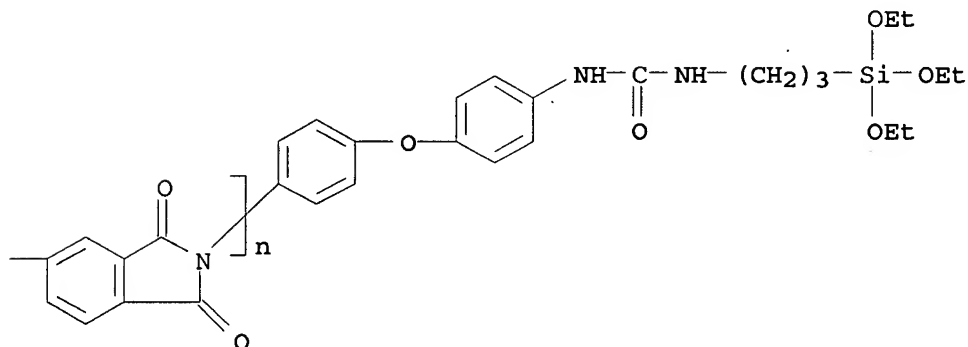
CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenyleneoxy-1,4-phenylene],  $\alpha$ -[4-[4-[[[3-(triethoxysilyl)propyl]amino]carbonyl]amino]phenoxy]phenyl]- $\omega$ -[[[3-

(triethoxysilyl)propyl]amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



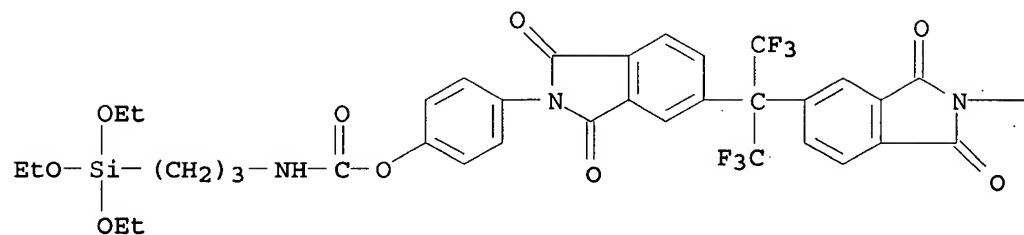
PAGE 1-B



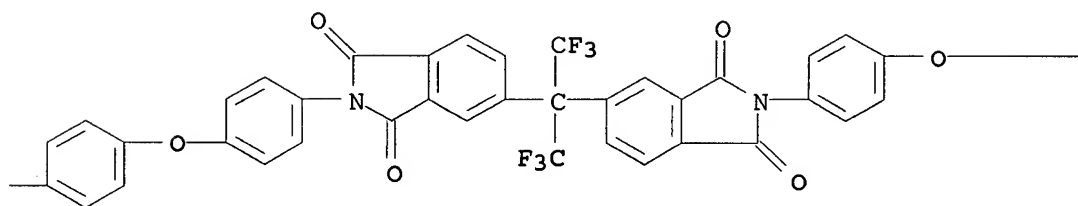
RN 160055-83-4 HCAPLUS

CN Carbamic acid, [3-(triethoxysilyl)propyl]-, [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-4,1-phenyleneoxy-4,1-phenylene(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl) [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene] (1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-4,1-phenyleneoxy-4,1-phenylene(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl) [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene] (1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-4,1-phenylene] ester (9CI) (CA INDEX NAME)

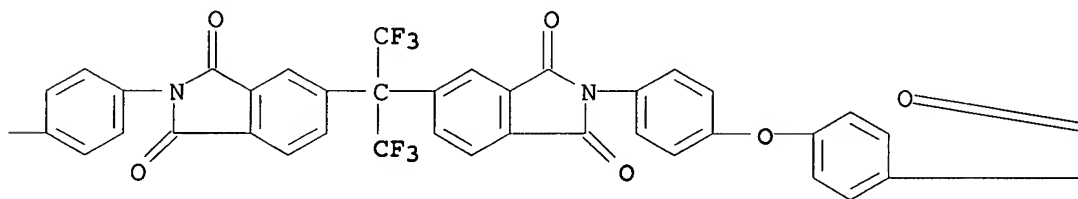
PAGE 1-A



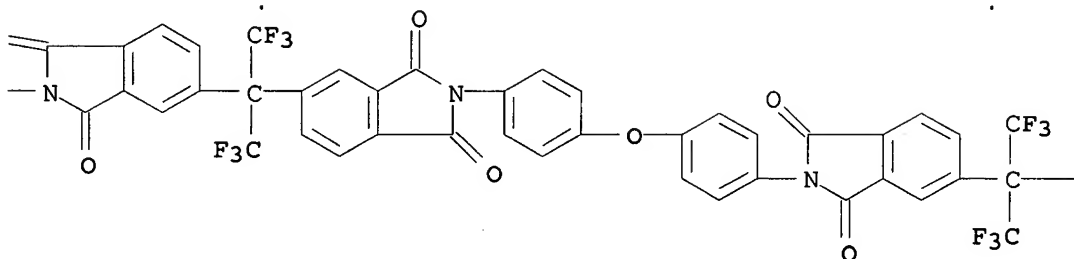
PAGE 1-B



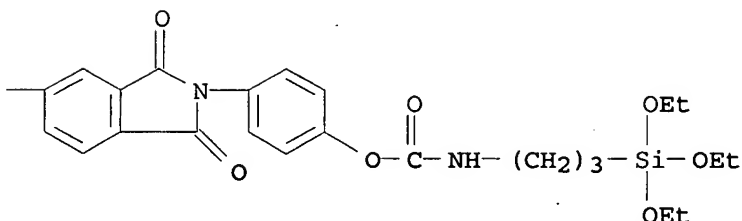
PAGE 1-C



PAGE 1-D



PAGE 1-E



L60 ANSWER 37 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:510576 HCAPLUS

DN 121:110576

TI Curable polyoxyalkylene compositions

IN Nakagawa, Hideki; Sasakura, Hidefumi; Yamamoto, Hirotsugu; Ozawa, Shigeyuki

PA Asahi Glass Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06057122	A	19940301	JP 1992-236573	19920812 <--
PRAI	JP 1992-236573		19920812	<--	

AB The title compns., with good storage stability and giving products with good soil resistance and low hardness, comprise (a) 100 parts polyethers containing reactive silyl groups and/or hydrolyzable silyl groups and (b) 5-150 parts tris(alkyl or aryl)silyloxy-terminated polyoxyalkylenes. Thus, a 2-mm sheet was prepared from 100 parts methyldimethoxysilyl-



terminated poly(propylene oxide) and 40 parts trimethylsilyl-terminated poly(propylene oxide).

IC ICM C08L071-02

CC 37-6 (Plastics Manufacture and Processing)

ST methyldimethoxysilyl terminated polypropylene oxide blend; trimethylsilylterminated polypropylene oxide blend; polyether blend curable soft molding; storage stability polyether blend

IT Plastics, molded

RL: USES (Uses)

(blends of reactive silyl group-terminated polyoxyalkylenes, low hardness)

IT Polyoxyalkylenes, uses

RL: USES (Uses)

(silyl-terminated, reactive, for storage-stable composition for low hardness products)

IT 77396-40-8

RL: USES (Uses)

(curable composition containing, storage-stable, for low hardness products)

IT 70546-04-2

RL: MOA (Modifier or additive use); USES (Uses)

(**plasticizers**, curable composition containing, storage-stable, for low hardness products)

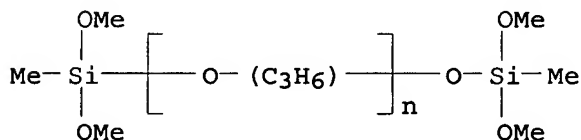
IT 77396-40-8

RL: USES (Uses)

(curable composition containing, storage-stable, for low hardness products)

RN 77396-40-8 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(dimethoxymethylsilyl)- $\omega$ -[(dimethoxymethylsilyl)oxy]- (9CI) (CA INDEX NAME)



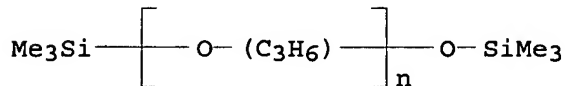
IT 70546-04-2

RL: MOA (Modifier or additive use); USES (Uses)

(**plasticizers**, curable composition containing, storage-stable, for low hardness products)

RN 70546-04-2 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



L60 ANSWER 38 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:165898 HCAPLUS

DN 120:165898

TI Room-temperature-curable organopolysiloxane **composition** and its cured product

IN Takago, Toshio; Sato, Shinichi; Kinami, Hitoshi; Yamada, Hirokazu

PA Shin-Etsu Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 562878	A2	19930929	EP 1993-302373	19930326 <--
	EP 562878	A3	19931027		
	EP 562878	B1	19970514		
	R: DE, FR, GB				
	JP 06016940	A	19940125	JP 1993-91990	19930326 <--
	JP 2819371	B2	19981030		
	US 5314981	A	19940524	US 1993-37322	19930326 <--
PRAI	JP 1992-140878	A	19920327	<--	

AB The **moisture-curable** title **composition**, giving product with easy removal of fungi, useful as coating materials, sealing compns., adhesives, etc., is comprised of (a) a **OH-terminated di-organo siloxane** 100, (b) an organosilicon compound containing  $\geq 3$  Si-bonded hydrolyzable groups or its partially hydrolyzed product 0.5-30, and (c) a perfluoroalkylene- and polyether-containing alkoxy silane with specific structure 0.1-15 parts. Thus, a mixture of **OH-terminated di-Me siloxane** 100, hexamethyldisilazane-treated fumed silica 12, and TiO<sub>2</sub> 1.5 parts was blended with methyltri(butanoxime)silane 7, dibutyltin dioctoate 0.1, and perfluoroalkylene-polyethersilane (EtO)<sub>2</sub>SiMe(CH<sub>2</sub>)<sub>3</sub>NHCO[CF(CF<sub>3</sub>)OCF<sub>2</sub>]<sub>2</sub>[CF<sub>2</sub>OCF(CF<sub>3</sub>)]<sub>3</sub>CONH(CH<sub>2</sub>)<sub>3</sub>SiMe(OEt)<sub>2</sub> 1.0-5.0 parts to give the title **compn**

IC ICM C08L083-04

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 39, 42

ST **hydroxy terminated siloxane moisture curable**; hexamethyldisilazane treated silica **moisture curable** siloxane; methyltributanoximesilane **hydroxy siloxane moisture curable**; perfluoroalkylene ether silane **moisture curable** siloxane

IT Rubber, silicone, uses

RL: USES (Uses)

(moisture-cured compns., with perfluoroalkylene-polyethersilanes coating)

IT Perfluoro compounds

RL: USES (Uses)

(silane-derivs., coating, **moisture-curable hydroxy-terminated siloxane** compns. containing hydrolyzable silanes with mildewproofing)

IT Silanes

RL: USES (Uses)

(alkoxy, **moisture-curable hydroxy-terminated siloxane** compns. containing hydrolyzable silanes and)

IT Siloxanes and Silicones, uses

RL: USES (Uses)

(di-Me, hydroxy-terminated, **moisture-curable** compns., containing hydrolyzable silanes and perfluoroalkylene-polyethersilanes)

IT Silanes

RL: USES (Uses)

(fluoro, coating, **moisture-curable hydroxy-terminated siloxane** compns. containing hydrolyzable silanes with mildewproofing)

IT Adhesives

## Sealing compositions

(moisture-curable, hydroxy-terminated siloxanes containing hydrolyzable silanes and perfluoroalkylene-polyethersilanes for)

IT Coating materials

(moisture-curable, mildewproofing, perfluoroalkylene-polyethersilanes for silicone rubber)

IT 94403-04-0

RL: USES (Uses)

(moisture-curable hydroxy-terminated siloxane compns. containing hydrolyzable silanes and)

IT 5581-68-0 6651-38-3 22984-54-9 69709-01-9

RL: USES (Uses)

(moisture-curable hydroxy-terminated siloxane compns. containing perfluoroalkylene-polyethersilane and)

L60 ANSWER 39 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1992:196409 HCAPLUS

DN 116:196409

TI Room-temperature-curable alkoxysilyl-terminated polyoxyalkylene compositions

IN Matsui, Toru; Umeya, Itaru; Fukunaga, Yoichi

PA Konishi Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03294355	A	19911225	JP 1990-98394	19900412 <--
PRAI	JP 1990-98394		19900412 <--		

AB The title compns., moisture-curable into elastomers with adequate time for spatula finishing and useful for sealants and adhesives, comprise crosslinkable hydrolyzable silicone group-terminated polyoxyalkylenes 100, R<sub>4</sub>-nSi(OMe)<sub>n</sub> (R = lower alkyl, Ph; n = 2-4; ≥1 of R's is Me when n = 2) 0.1-20, fillers 5-300, and silanol condensation catalysts 0.01-10 parts. Thus, a composition of Kaneka MSP 20A 100, CaCO<sub>3</sub> 100, KR 380 20, DOP 40, KBM 103 5, Stann BL (dibutyltin dilaurate) 3, and Farmin 20D 1 part showed tack-free time (JIS A 5758) 7 h, time allowable for spatula finishing 210 min, and time of curing to 5 mm-depth 4 days vs. 6, 40, and 4, resp., for a control containing KBM 1003 in place of KBM 103.

IC ICM C08L071-00

ICS C08G065-32

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 38, 39

ST silyl terminated polyoxyalkylene alkoxysilane

sealant; adhesive silyl terminated polyoxyalkylene

alkoxysilane; filler polyoxyalkylenesiloxane sealant; silanol

condensation catalyst polyoxyalkylenesiloxane sealant

IT Sealing compositions

(alkoxysilyl-terminated polyoxyalkylene compns., room-temperature-curable)

IT Polymerization catalysts

(for alkoxysilyl-terminated polyoxyalkylenes and alkoxysilanes)

IT Polyoxyalkylenes, uses

RL: USES (Uses)

((alkoxysilyl)-terminated, compns.,  
containing alkoxysilanes and fillers and silanol condensation  
catalysts, room-temperature-curable, for adhesives and sealants)

IT Rubber, silicone, preparation  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(polyoxyalkylene-, preparation and properties of)

IT Rubber, synthetic  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(polyoxyalkylene-siloxane, preparation and properties of)

IT Adhesives  
(room-temperature-curable, alkoxysilyl-terminated  
polyoxyalkylene compns.)

IT 1112-39-6, KBM 22 1185-55-3, KBM 13 2996-92-1, KBM 103 3027-21-2,  
**Methylphenyldimethoxysilane**  
RL: USES (Uses)  
(alkoxysilyl-terminated polyoxyalkylene  
compns. containing, room-temperature-curable, for adhesives and sealants)

IT 77396-40-8, Kaneka MSP 20A  
RL: USES (Uses)  
(compns., containing alkoxysilanes and fillers and silanol  
condensation catalysts, room-temperature-curable, for adhesives and  
sealants)

IT 471-34-1, Calcium carbonate, uses 13463-67-7, Titanium dioxide, uses  
RL: USES (Uses)  
(fillers, for room-temperature-curable alkoxysilyl-  
terminated polyoxyalkylene compns.)

IT 77-58-7, Dibutyltin dilaurate 124-22-1, Laurylamine  
RL: USES (Uses)  
(silanol condensation catalyst, for room-temperature-curable  
alkoxysilyl-terminated polyoxyalkylene compns  
.)

L60 ANSWER 40 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1981:48960 HCAPLUS

DN 94:48960

TI **Moisture-curable sealing compositions**

PA Shin-Etsu Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 55115446	A	19800905	JP 1979-21555	19790226 <--
	JP 61054824	B	19861125		
PRAI	JP 1979-21555	A	19790226	<--	

AB **Compns. of silanol-terminated poly(oxyalkylene**  
) 100, **silane** having  $\geq 2$  hydrolyzable groups 1-30, organic  
acid metal salts 0-10, and hydroxy-terminated **siloxane**  
0-100 parts are curable at room temps. in the presence of moisture and  
useful as sealants. Thus, a composition of  $\alpha$ -  
dimethylhydroxysilylpropyl)- $\omega$ -(3-dimethylhydroxysilylpropoxy)poly(ox  
ypropylene) [75981-78-1] 100, EtSi(OMe)<sub>3</sub> [5314-55-6] 6, and Bu<sub>2</sub>Sn  
dilaurate [77-58-7] 1 part was formed into a 2-mm sheet and left 7 days  
at 20° and relative humidity 60% to give test pieces having  
elongation 230%, tensile strength 5.7 kg/cm<sup>2</sup>, and hardness 8.

IC C08L083-00; C08L071-00

CC 42-11 (Coatings, Inks, and Related Products)

ST **hydroxysilyl terminated polyoxypropylene; sealant**

polyoxypropylene deriv; alkoxysilane crosslinking agent; organotin salt crosslinking catalyst; moisture curing siloxane sealant

IT Crosslinking catalysts  
(dibutyltin dilaurate, for hydroxysilyl-terminated polyoxypropylene sealants)

IT Crosslinking agents  
(ethyltrimethoxysilane, for hydroxysilyl-terminated polyoxypropylene sealants)

IT Sealing compositions  
(hydroxysilyl-terminated polyoxypropylene, moisture-curable)

IT 77-58-7  
RL: CAT (Catalyst use); USES (Uses)  
(catalysts, for crosslinking of hydroxysilyl-terminated polyoxypropylene sealants)

IT 5314-55-6  
RL: MOA (Modifier or additive use); USES (Uses)  
(crosslinking agents, for hydroxysilyl-terminated polyoxypropylene sealants)

IT 75981-78-1  
RL: USES (Uses)  
(sealants, moisture-curable, crosslinking agents for)

L60 ANSWER 41 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 1979:440372 HCAPLUS  
DN 91:40372  
TI Polycarbonate composition containing siloxane plasticizer  
IN Mark, Victor; Wilson, Phillip S.  
PA General Electric Co., USA  
SO U.S., 5 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4148773	A	19790410	US 1977-865294	19771228 <--
US 1977-865294	A	19771228	<--	

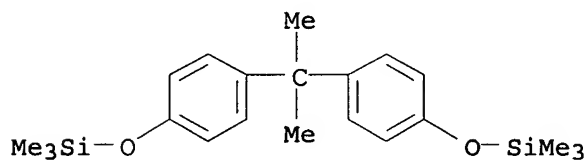
AB Polycarbonates containing minor amts. of oxysilyl-containing groups had increased melt flow rates and improved processability while retaining the desired high impact properties. Thus, 2,2-bis(4-hydroxyphenyl)propane-phosgene copolymer (I) [25971-63-5] containing 0.5 part/100 parts resin of bis[tris(4-nonylphenoxy)silyl] ether (II) [70572-37-1] had melt flow rate 16.63 g/10 min and impact strength 14.6 ft-lb/in. compared with 10.10 g/10 min and 15.0 ft-lb/in., resp., for I containing no II.

IC C08L069-00  
INCL 260029100SB  
CC 36-6 (Plastics Manufacture and Processing)  
ST polycarbonate nonylphenoxydisiloxane plasticizer; silyloxy compd plasticizer polycarbonate  
IT Plasticizers  
(oxysilane compds., for polycarbonates)

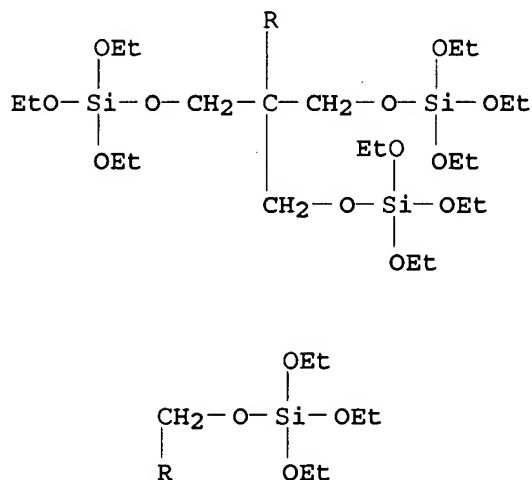
IT Polycarbonates  
RL: USES (Uses)  
(plasticizers for, oxysilane compds. as)

IT Siloxanes and Silicones, uses and miscellaneous  
RL: MOA (Modifier or additive use); USES (Uses)

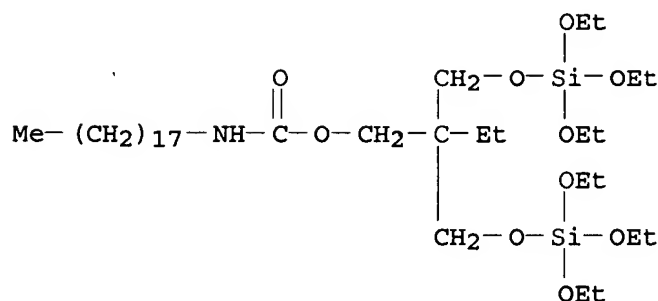
(plasticizers, for polycarbonates)  
 IT 24936-68-3, uses and miscellaneous 25971-63-5  
 RL: USES (Uses)  
 (plasticizers for, oxysilane compds. as)  
 IT 4387-16-0 70572-37-1 70572-38-2 70572-39-3 70572-40-6  
 70572-41-7 70572-42-8 70572-43-9 70572-44-0  
 70572-45-1 70669-95-3  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (plasticizers, for polycarbonates)  
 IT 4387-16-0 70572-44-0 70572-45-1  
 70669-95-3  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (plasticizers, for polycarbonates)  
 RN 4387-16-0 HCAPLUS  
 CN Silane, [(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[trimethyl- (9CI)  
 (CA INDEX NAME)



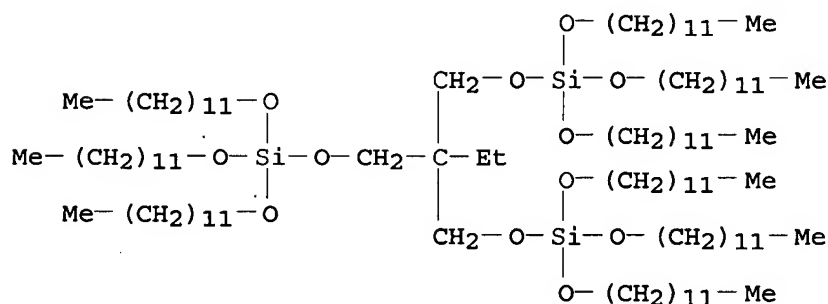
RN 70572-44-0 HCAPLUS  
 CN Silicic acid (H4SiO4), 2,2-bis[[(triethoxysilyl)oxy]methyl]-1,3-propanediyl hexaethyl ester (9CI) (CA INDEX NAME)



RN 70572-45-1 HCAPLUS  
 CN Carbamic acid, octadecyl-, 2,2-bis[[(triethoxysilyl)oxy]methyl]butyl ester (9CI) (CA INDEX NAME)



RN 70669-95-3 HCAPLUS

CN Silicic acid (H<sub>4</sub>SiO<sub>4</sub>), 2-ethyl-2-[[[tris(dodecyloxy)silyl]oxy]methyl]-1,3-propanediyl hexadodecyl ester (9CI) (CA INDEX NAME)

L60 ANSWER 42 OF 42 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1968:444492 HCAPLUS

DN 69:44492

TI Organosilicon **compositions** for use as sealants and caulking compounds

PA Dow Corning Corp.

SO Brit., 5 pp.

CODEN: BRXXAA

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1117975		19680626	GB 1966-41772	19660919 <--
	DE 1669925			DE	
	FR 1495853			FR	
	US 3542714		19701124	US	19681121 <--
PRAI	US		19651006	<--	

AB An organosilicon **composition**, curable to an elastomer, is prepared by mixing a methylpolysiloxane with 0.5-10% of an incompatible rosin which will form a film on the elastomer surface. The **composition** is paintable, and resistant to dirt, and can be used as a caulking or sealing compound. Fillers can be used. Thus, a hydroxyl end-blocked **dimethylpolysiloxane** (I) (viscosity 10,000 centistokes at 25°) 140, fume silica 14, hydroxyl end-blocked liquid **phenylmethylsiloxane** 4, **methyltriacetoxysilane** 10, TiO<sub>2</sub> pigment 6 and Bu<sub>2</sub>Sn(OAc)<sub>2</sub> 3 parts, were mixed with 50% PhMe solns. of

various rosins in dry conditions and exposed to moisture to effect curing. The phys. properties were as follows (rosin, weight % rosin, Durometer hardness, % elongation at break, tensile strength in kg./cm.2, 150% modulus, tear die B, given): -, 0, 34, 283, 12.8, 0.8, 25; polymerized wood rosin, 1, 33, 342, 14.7, 0.7, 28; polymerized wood rosin, 7.5, 30, 508, 18.1, 0.5, 35; unmodified wood rosin, 8, 29, 333, 10, 0.5, 31; partly polymerized wood rosin, 5, 28, 583, 22.5, 0.5, 26. The elastomers were painted with shellac, styrene-butadiene latex, polyurethane varnish, phenolic varnish, acrylic latex, or epoxy paint. The **compns.** had good resistance to exposure and were easily cleaned. A toluene solution of unmodified gum rosin was used in the same elastomer, and painted, with similar results. Other **compns.** used were disproportionated rosin in a benzoyl peroxide-vulcanized dimethylsiloxane-vinylmethylsiloxane copolymer, oxidized rosin in a I, methylhydrogenpolysiloxane,  $\text{Bu}_2\text{Sn}(\text{OAc})_2$  elastomer, hydrogenated rosin in a hydroxylated dimethylpolysiloxane (II)  $\text{CH}_2:\text{CHSi}(\text{ON}:\text{CMeEt})_3$  mixture, decarboxylated rosin in a II, propyl orthosilicate, and Pb octanoate mixture, and hydrogenolyzed rosin in a II, methyltrimethoxysiloxane, Bu titanate mixture

IC C08G  
 CC 38 (Elastomers, Including Natural Rubber)  
 ST sealant **compns**; caulking **compns**; polysiloxanes; rosin  
 IT Sealing **compositions**  
     (from rosins and silicone rubber, paintable)  
 IT Rubber, silicone  
     (sealing **compns.** (paintable) from rosins and)  
 IT Rosin  
 RL: USES (Uses)  
     (sealing **compns.** (paintable) from silicone rubber and)

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